

FCC Appendix RF Test Data for BT

Company: : Shenzhen Vikcent Technology Co., Ltd.

EUT : Magic Mirror Appliance

Model Number : MMA21-4-A

FCC ID : 2BTT6-MMA21-4-A

Report No. : CTA25111301801

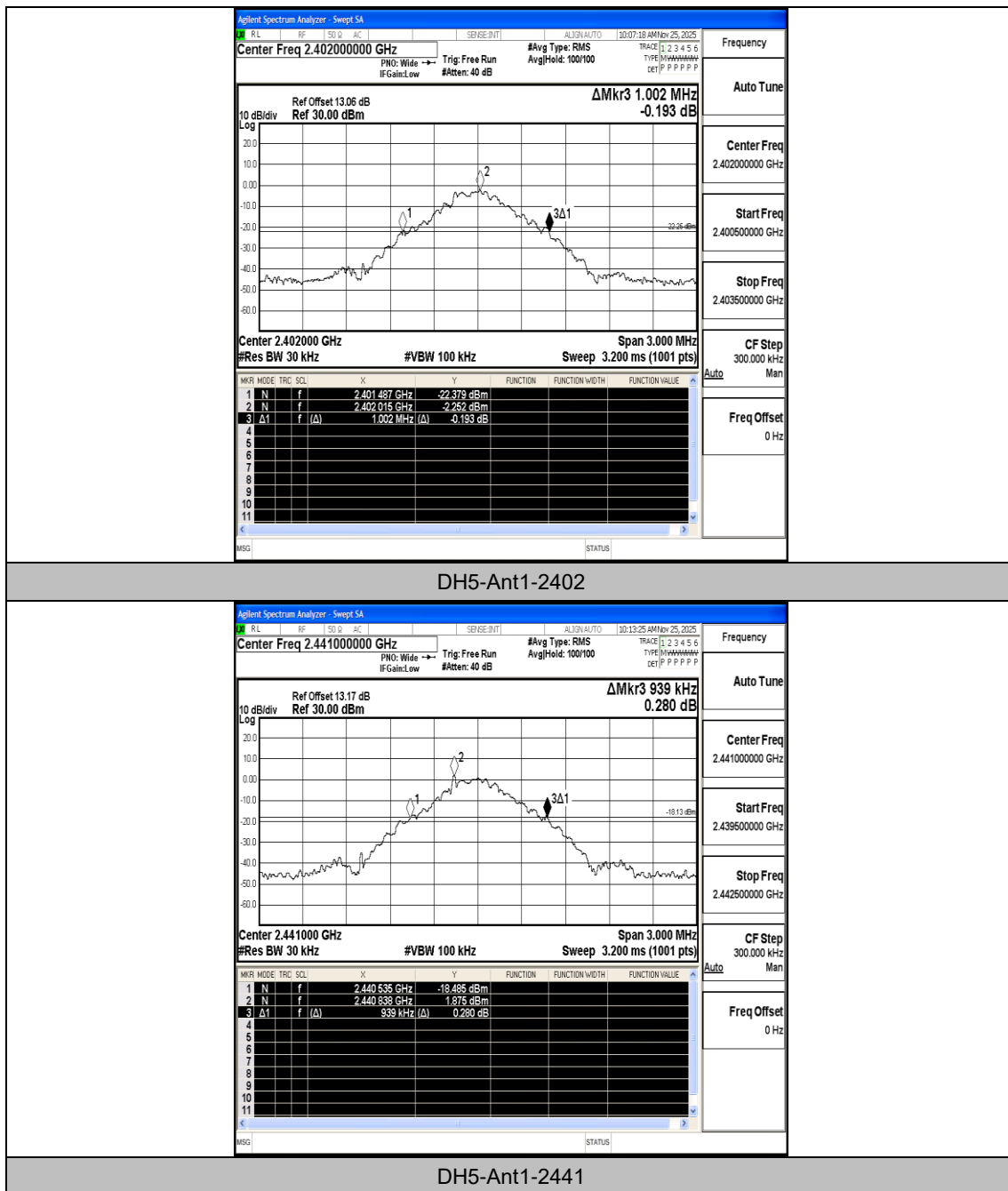
Reviewed By : Eric Wang

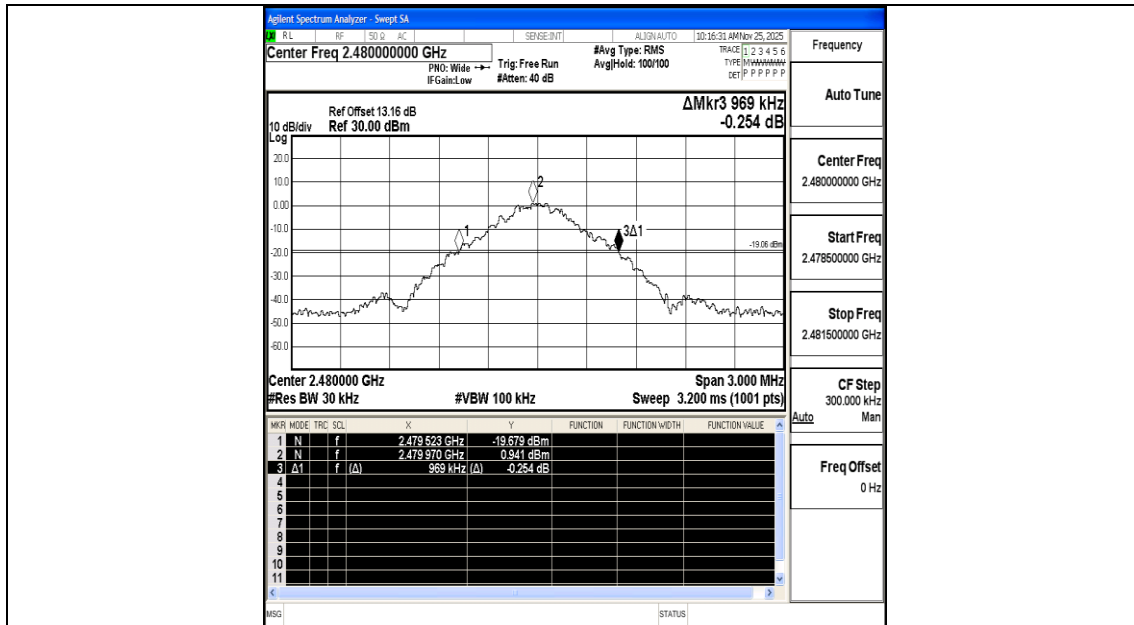
Appendix A: 20dB Emission Bandwidth

Test Result

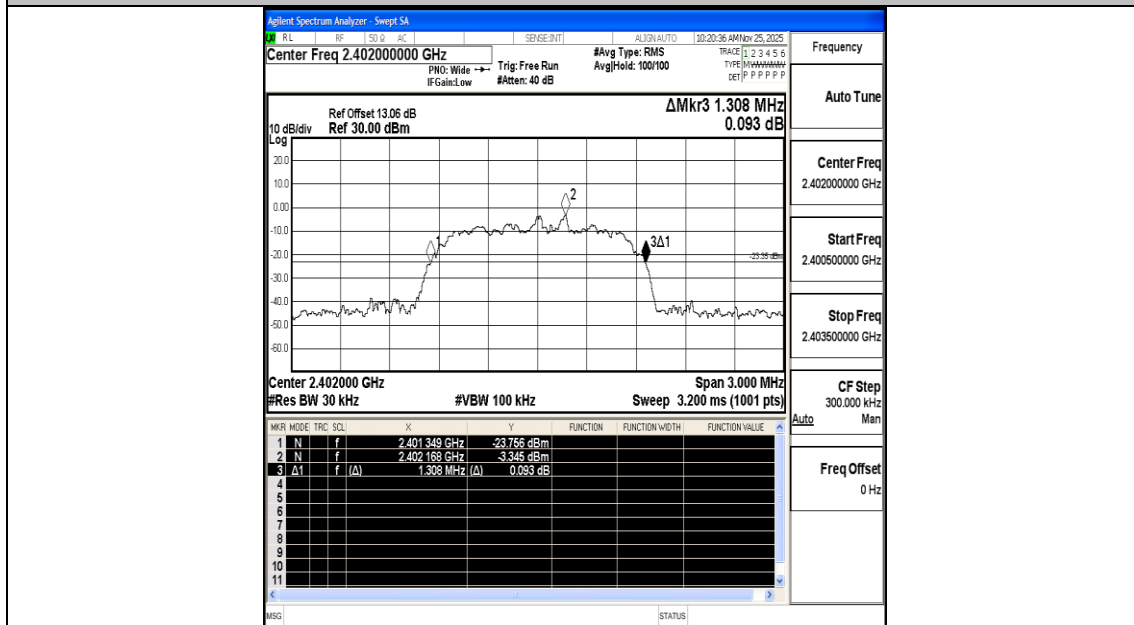
TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.002	2401.487	2402.489	---	---
DH5	Ant1	2441	0.939	2440.535	2441.474	---	---
DH5	Ant1	2480	0.969	2479.523	2480.492	---	---
2DH5	Ant1	2402	1.308	2401.349	2402.657	---	---
2DH5	Ant1	2441	1.320	2440.334	2441.654	---	---
2DH5	Ant1	2480	1.308	2479.340	2480.648	---	---
3DH5	Ant1	2402	1.296	2401.343	2402.639	---	---
3DH5	Ant1	2441	1.305	2440.343	2441.648	---	---
3DH5	Ant1	2480	1.296	2479.352	2480.648	---	---

Test Graphs

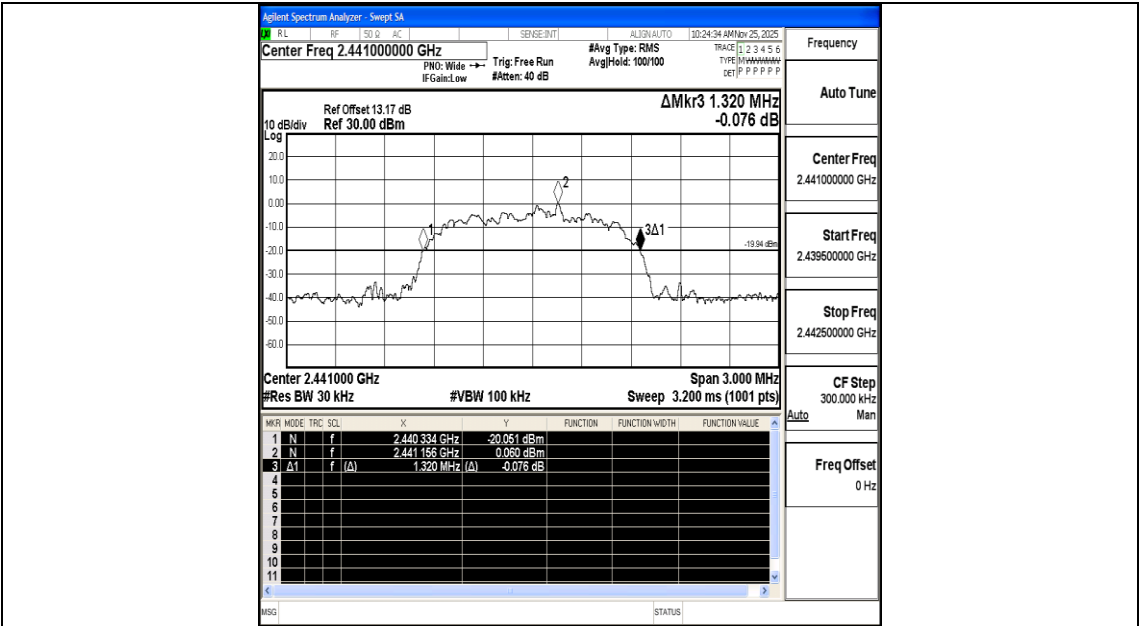




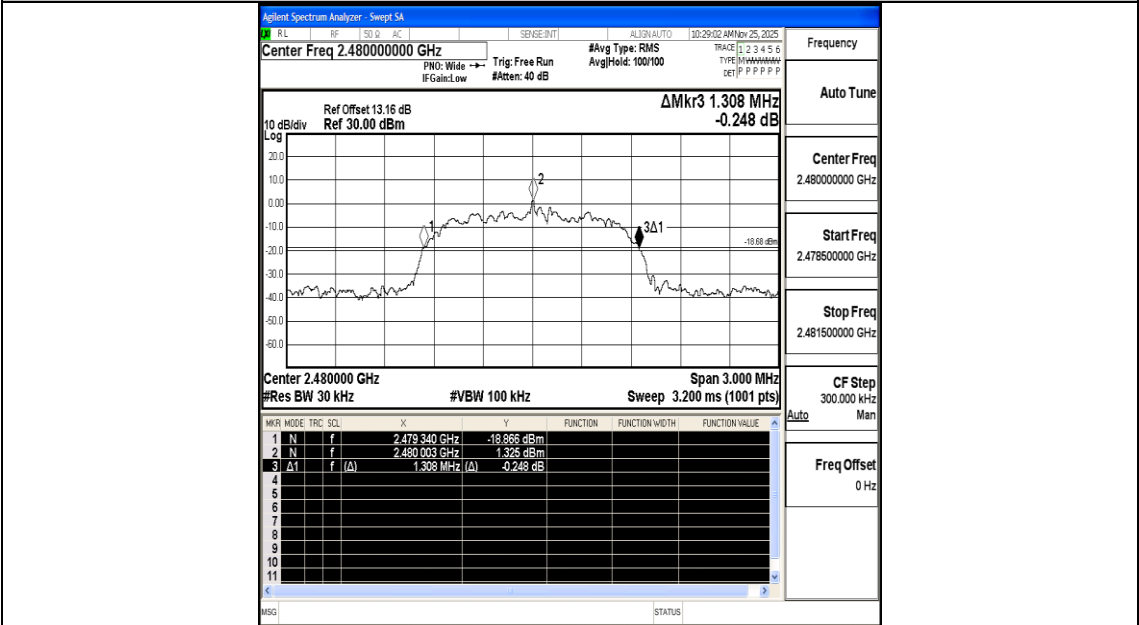
DH5-Ant1-2480



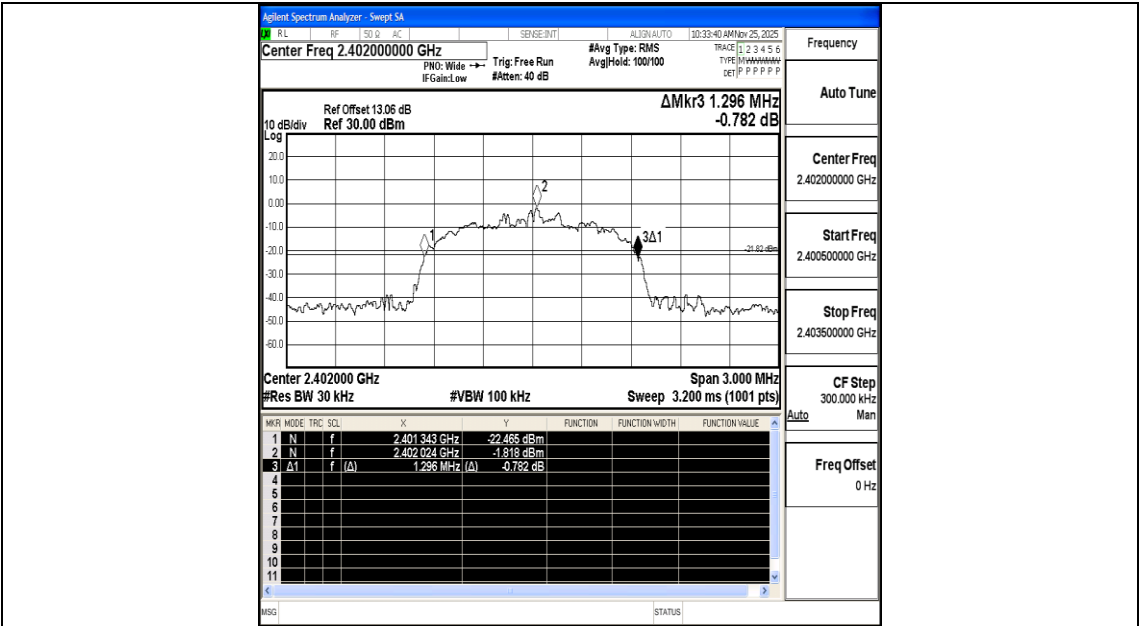
2DH5-Ant1-2402



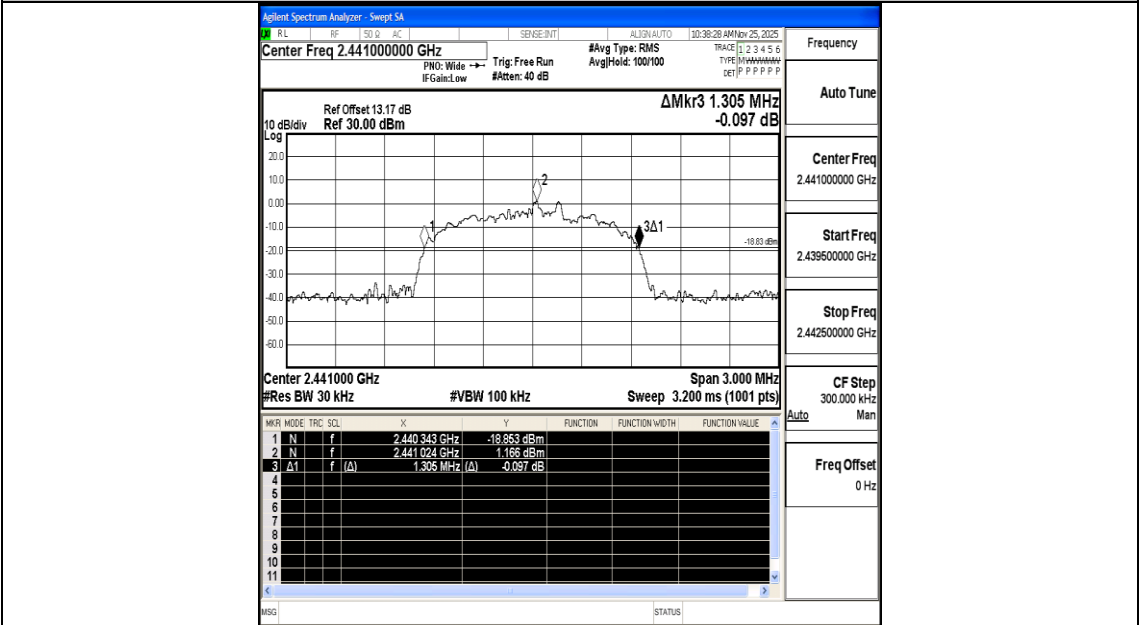
2DH5-Ant1-2441



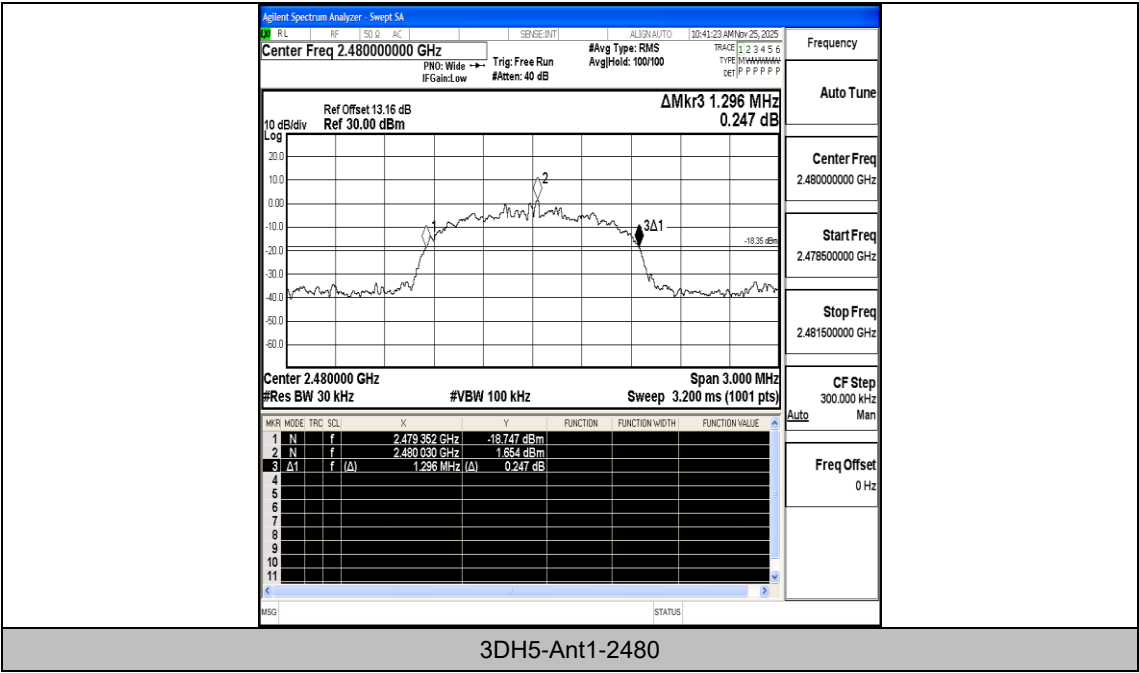
2DH5-Ant1-2480



3DH5-Ant1-2402



3DH5-Ant1-2441

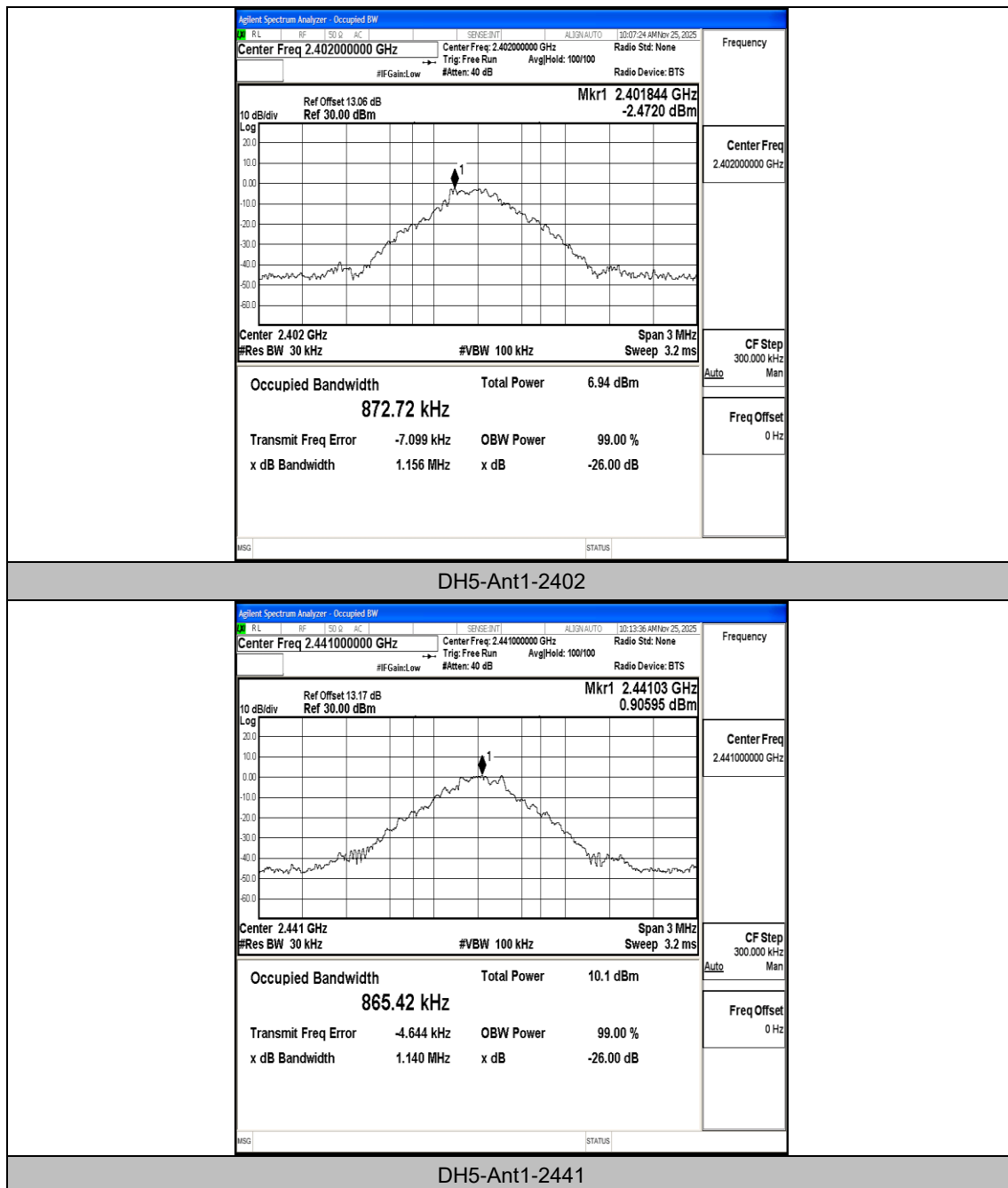


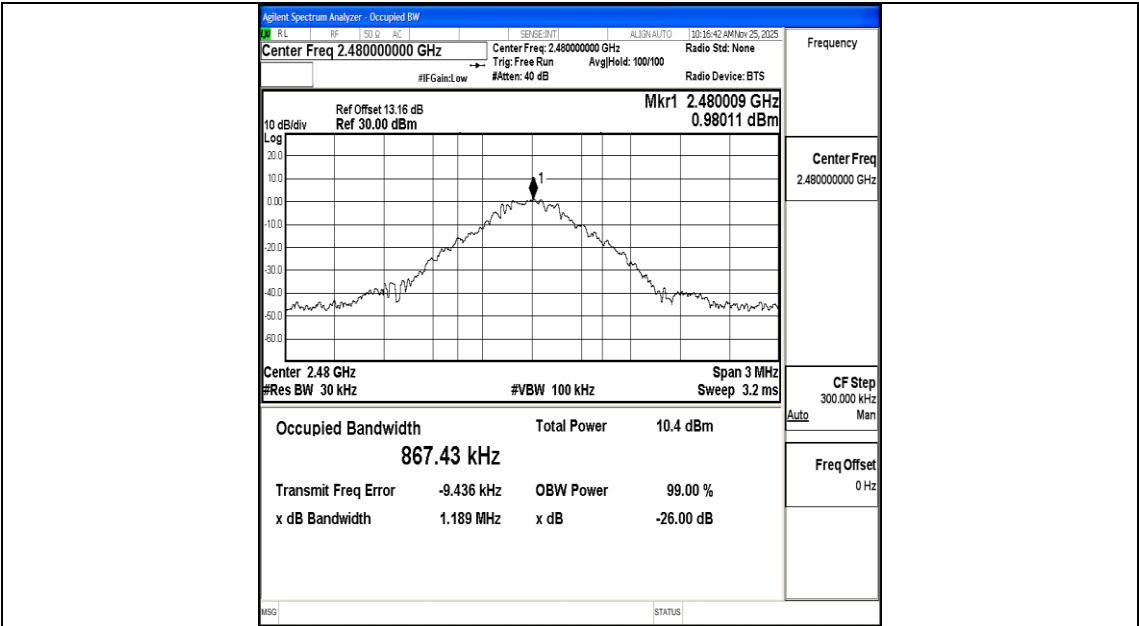
Appendix B: Occupied Channel Bandwidth

Test Result

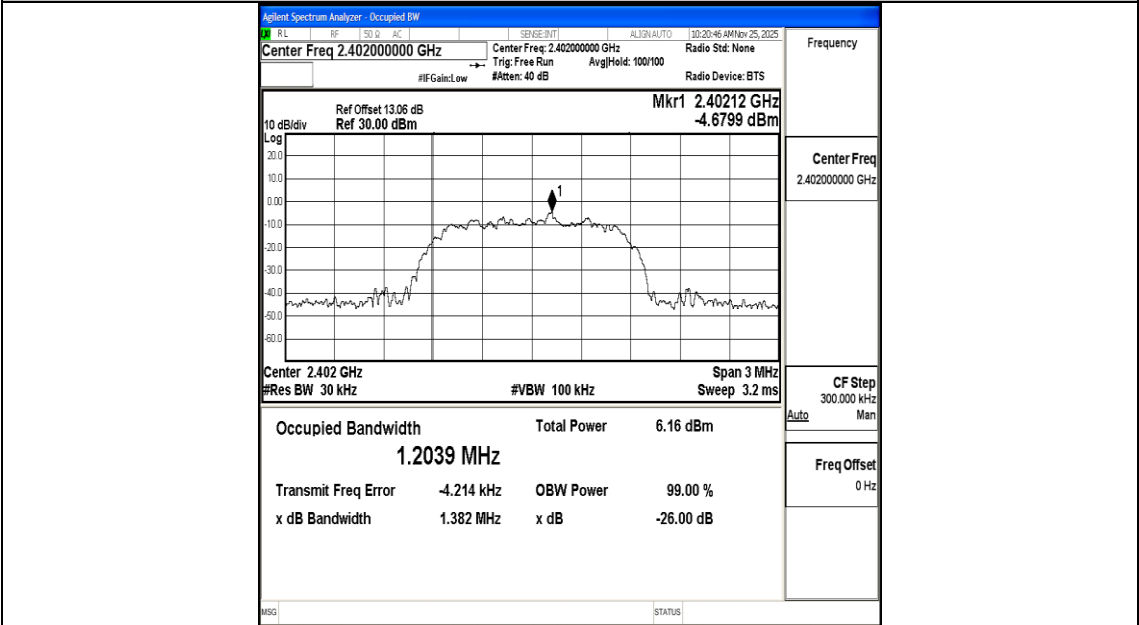
TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87272	2401.5565	2402.4293	---	---
DH5	Ant1	2441	0.86542	2440.5627	2441.4281	---	---
DH5	Ant1	2480	0.86743	2479.5568	2480.4243	---	---
2DH5	Ant1	2402	1.2039	2401.3938	2402.5977	---	---
2DH5	Ant1	2441	1.1889	2440.3985	2441.5874	---	---
2DH5	Ant1	2480	1.1923	2479.3987	2480.5910	---	---
3DH5	Ant1	2402	1.1999	2401.3925	2402.5924	---	---
3DH5	Ant1	2441	1.1896	2440.4011	2441.5907	---	---
3DH5	Ant1	2480	1.2181	2479.3797	2480.5978	---	---

Test Graphs

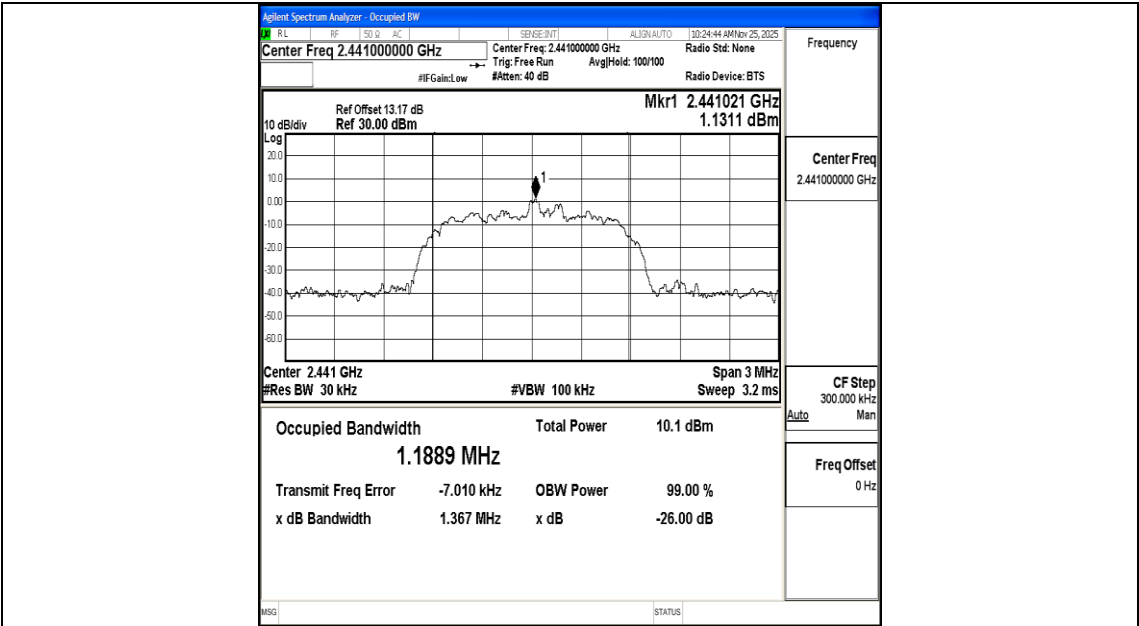




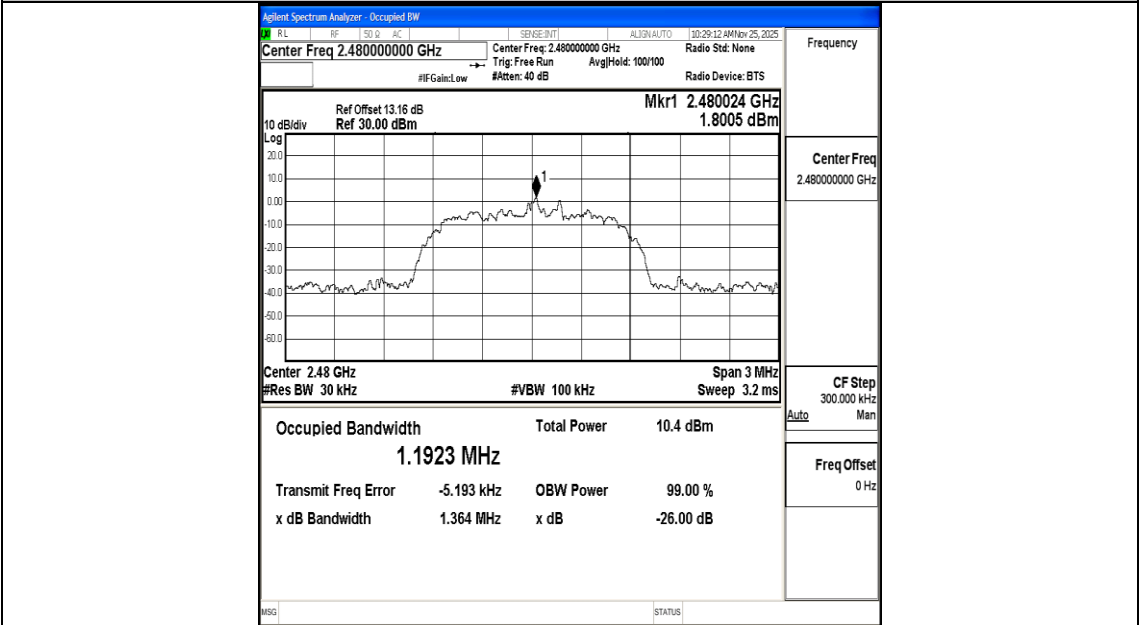
DH5-Ant1-2480



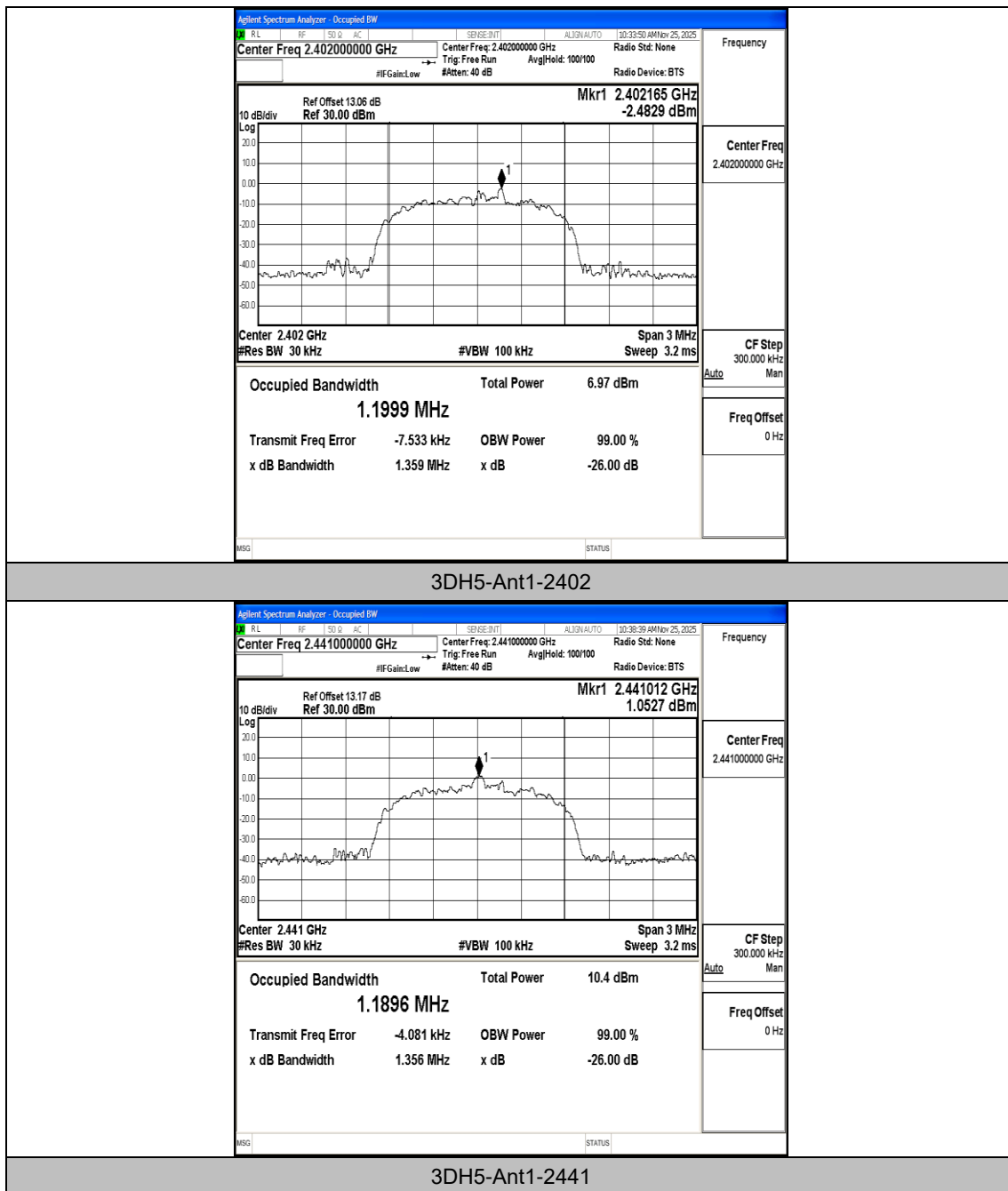
2DH5-Ant1-2402

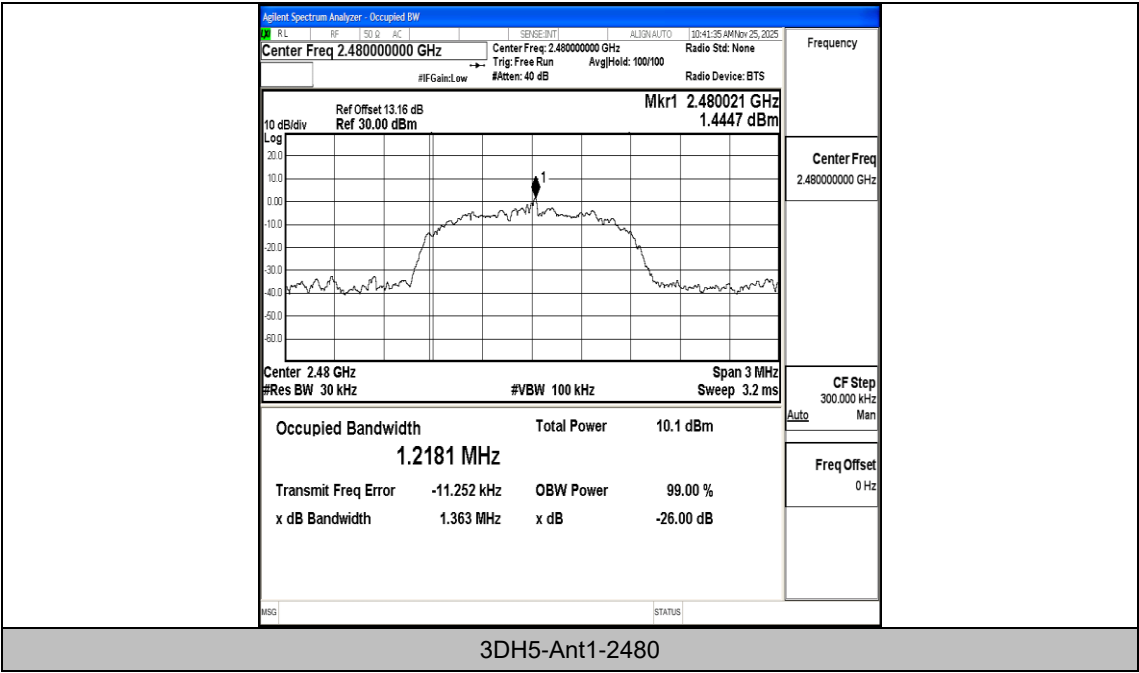


2DH5-Ant1-2441



2DH5-Ant1-2480





Appendix C: Maximum conducted output power

Test Result Peak

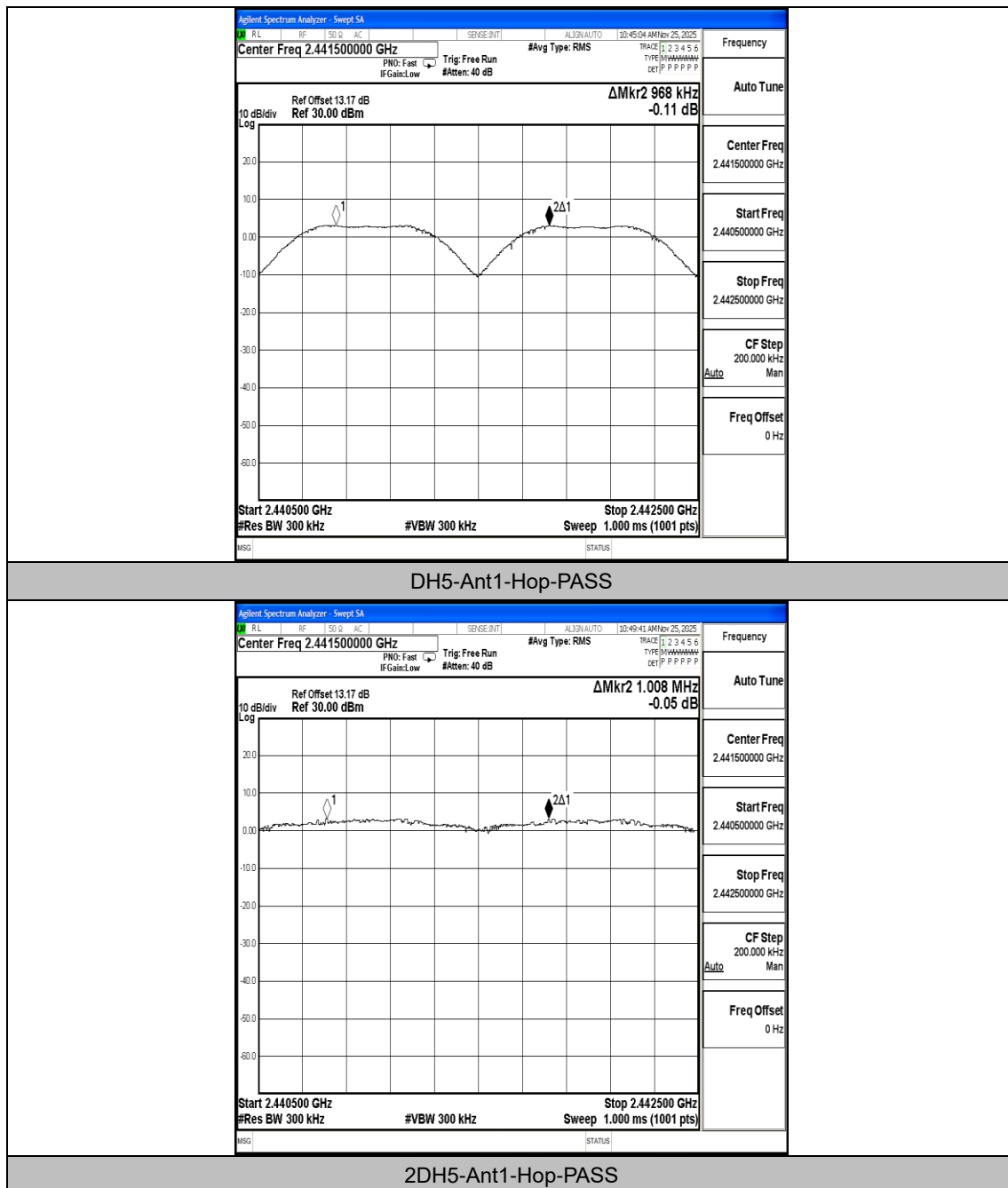
Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	0.58	≤ 20.97	PASS
DH5	Ant1	2441	3.69	≤ 20.97	PASS
DH5	Ant1	2480	4.05	≤ 20.97	PASS
2DH5	Ant1	2402	2.17	≤ 20.97	PASS
2DH5	Ant1	2441	4.89	≤ 20.97	PASS
2DH5	Ant1	2480	4.99	≤ 20.97	PASS
3DH5	Ant1	2402	2.40	≤ 30	PASS
3DH5	Ant1	2441	5.03	≤ 30	PASS
3DH5	Ant1	2480	5.10	≤ 30	PASS

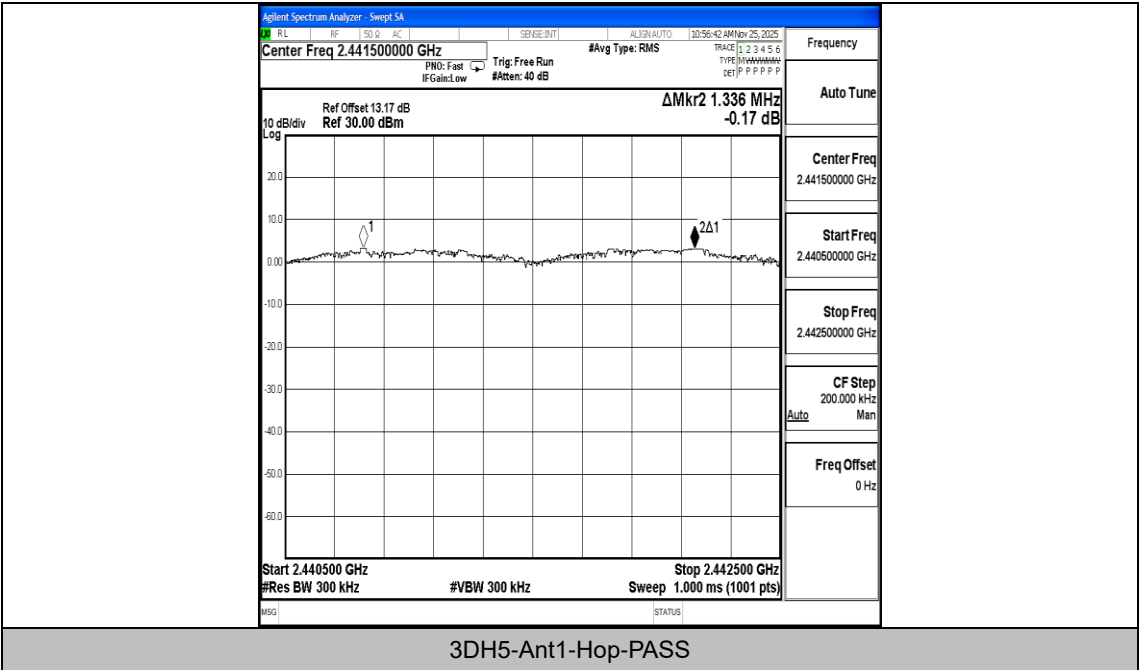
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.968	≥ 0.668	PASS
2DH5	Ant1	Hop	1.008	≥ 0.880	PASS
3DH5	Ant1	Hop	1.336	≥ 1.305	PASS

Test Graphs



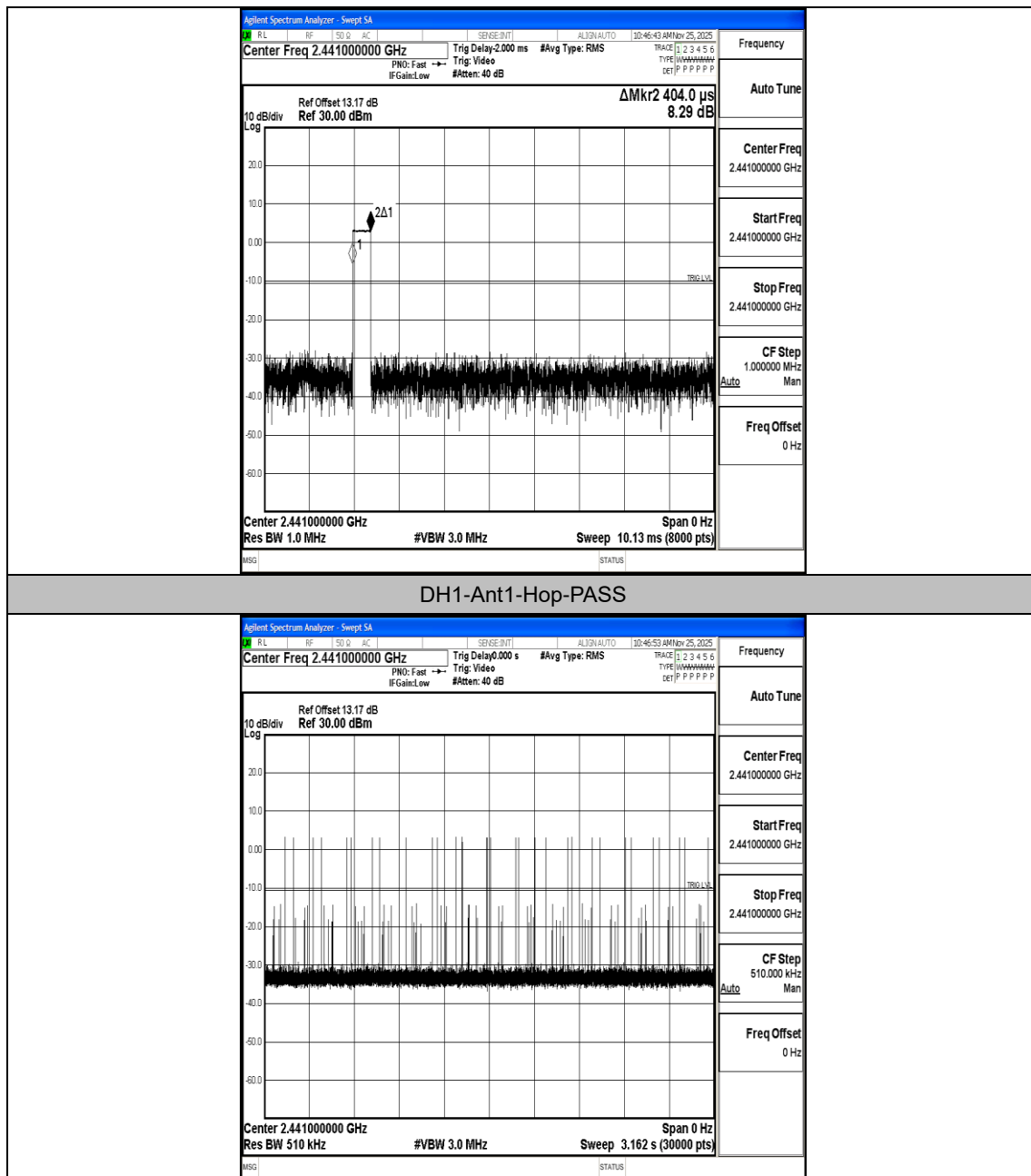


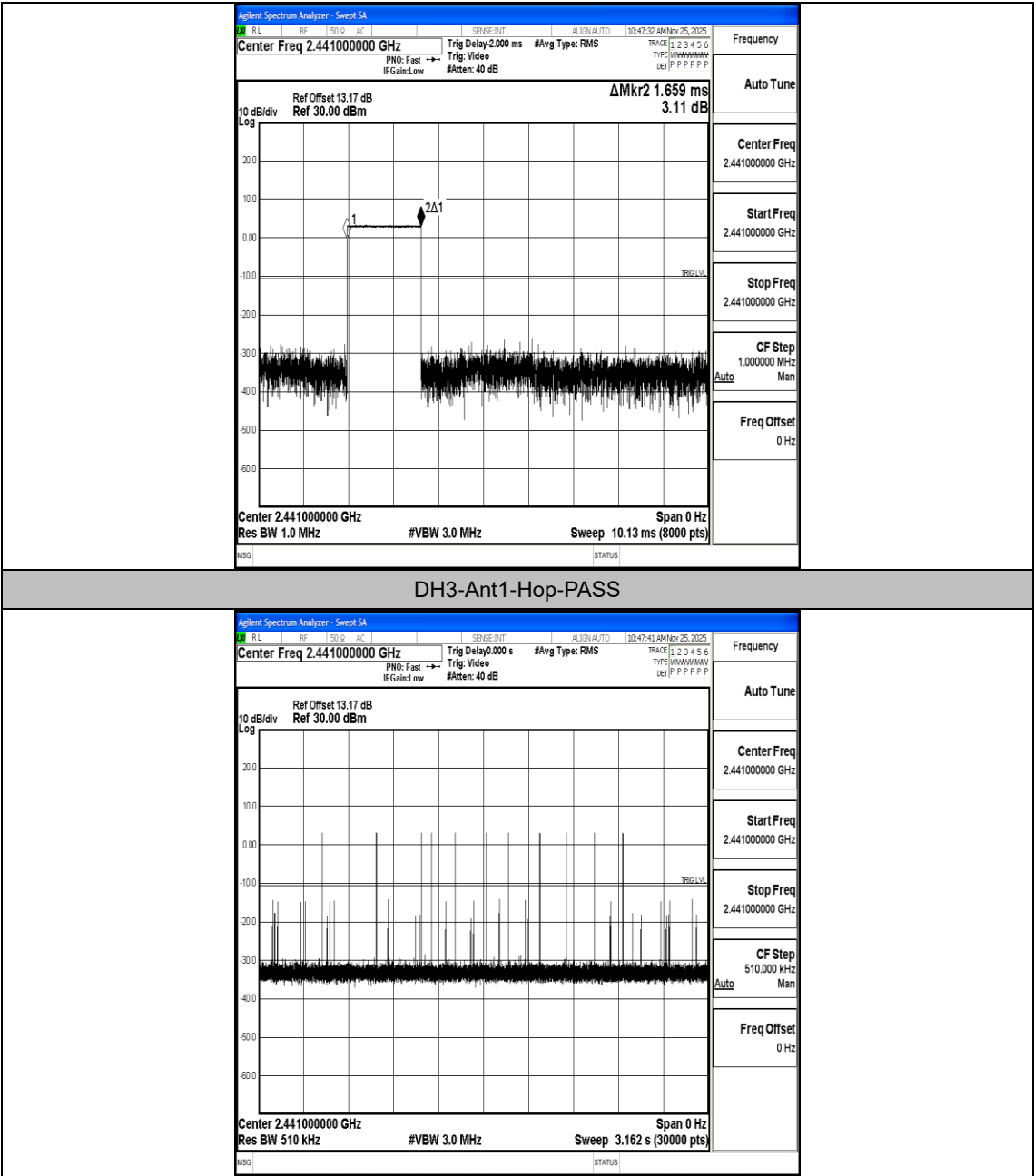
Appendix E: Time of occupancy

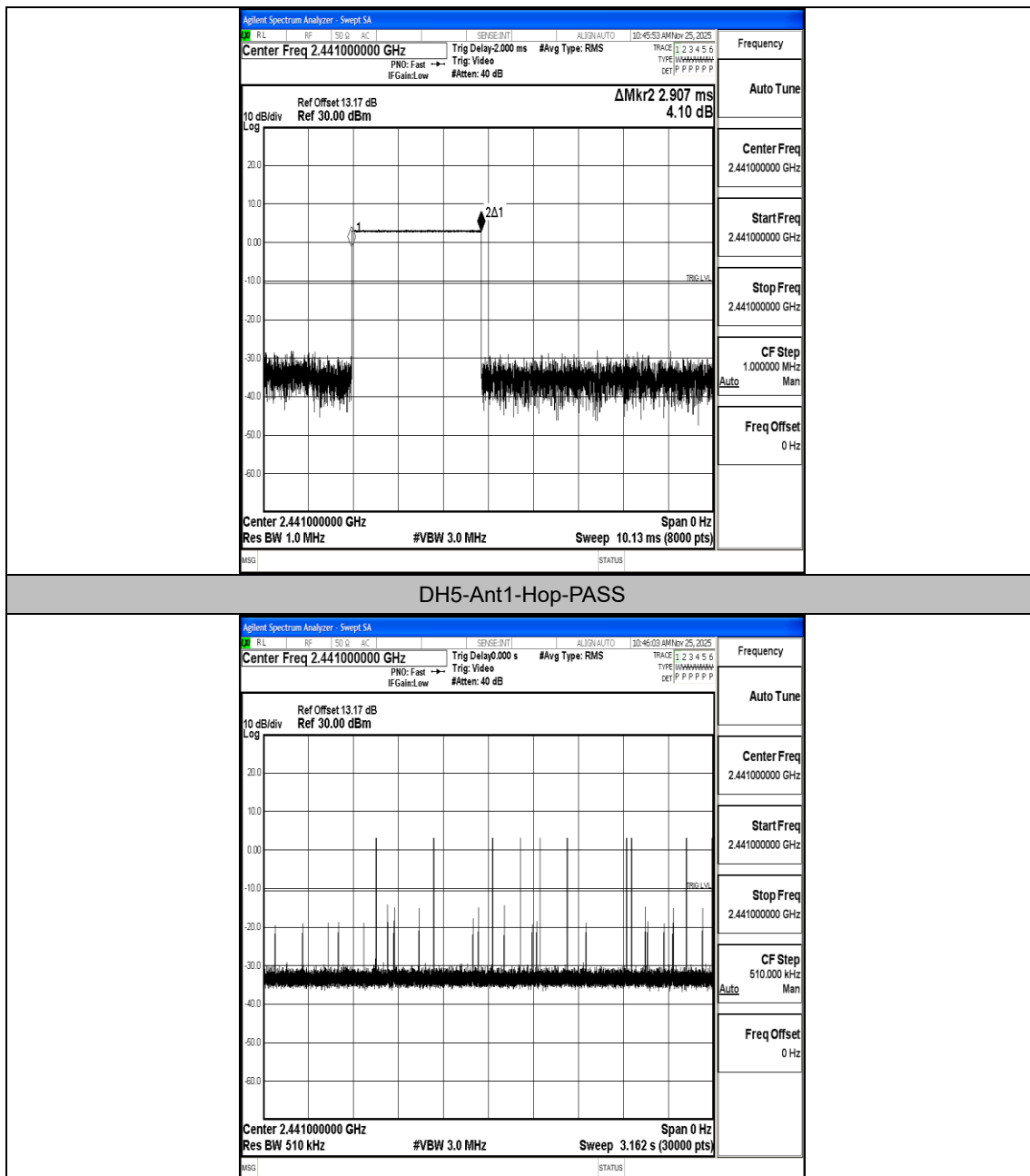
Test Result

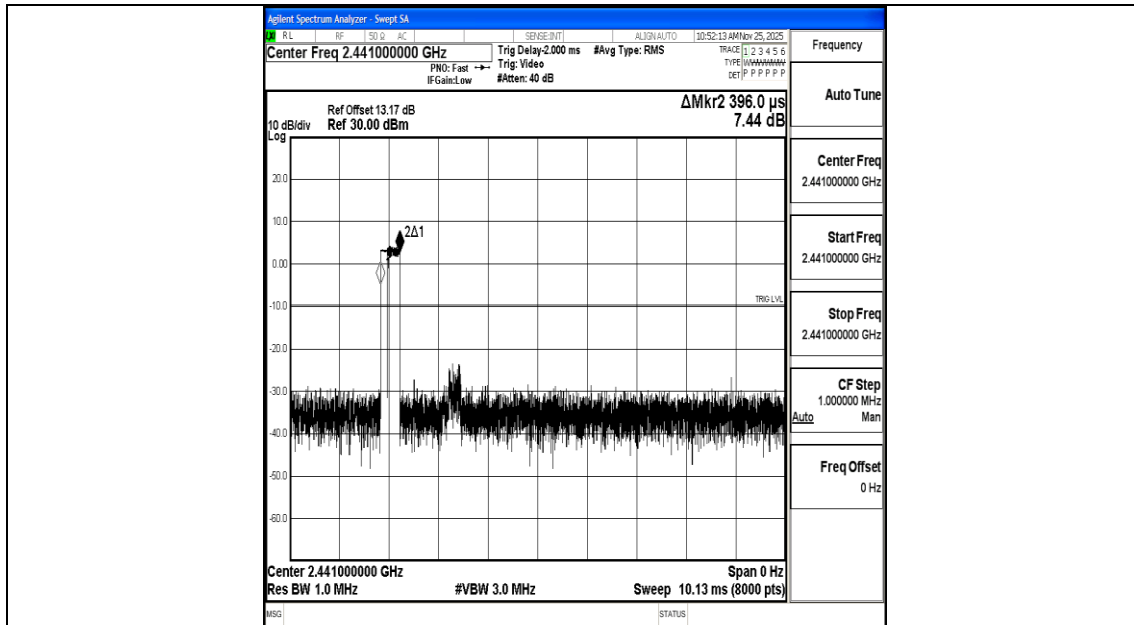
TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.404	320	0.129	≤0.4	PASS
DH3	Ant1	Hop	1.659	130	0.216	≤0.4	PASS
DH5	Ant1	Hop	2.907	110	0.32	≤0.4	PASS
2DH1	Ant1	Hop	0.396	320	0.127	≤0.4	PASS
2DH3	Ant1	Hop	1.648	190	0.313	≤0.4	PASS
2DH5	Ant1	Hop	2.896	80	0.232	≤0.4	PASS
3DH1	Ant1	Hop	0.394	320	0.126	≤0.4	PASS
3DH3	Ant1	Hop	1.644	170	0.279	≤0.4	PASS
3DH5	Ant1	Hop	2.896	130	0.376	≤0.4	PASS

Test Graphs

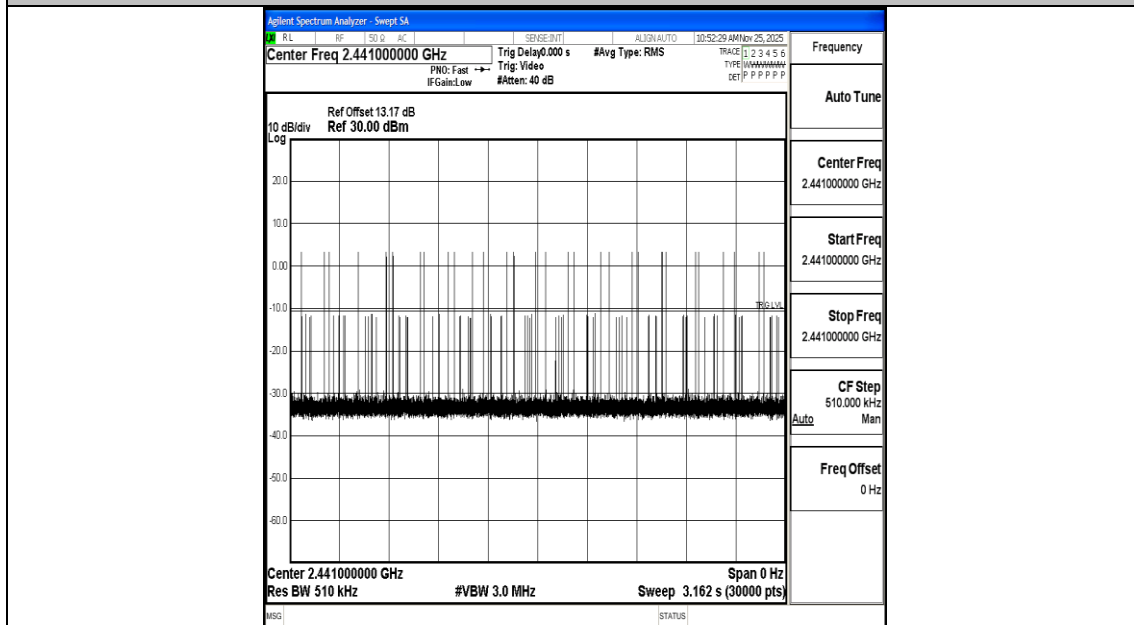


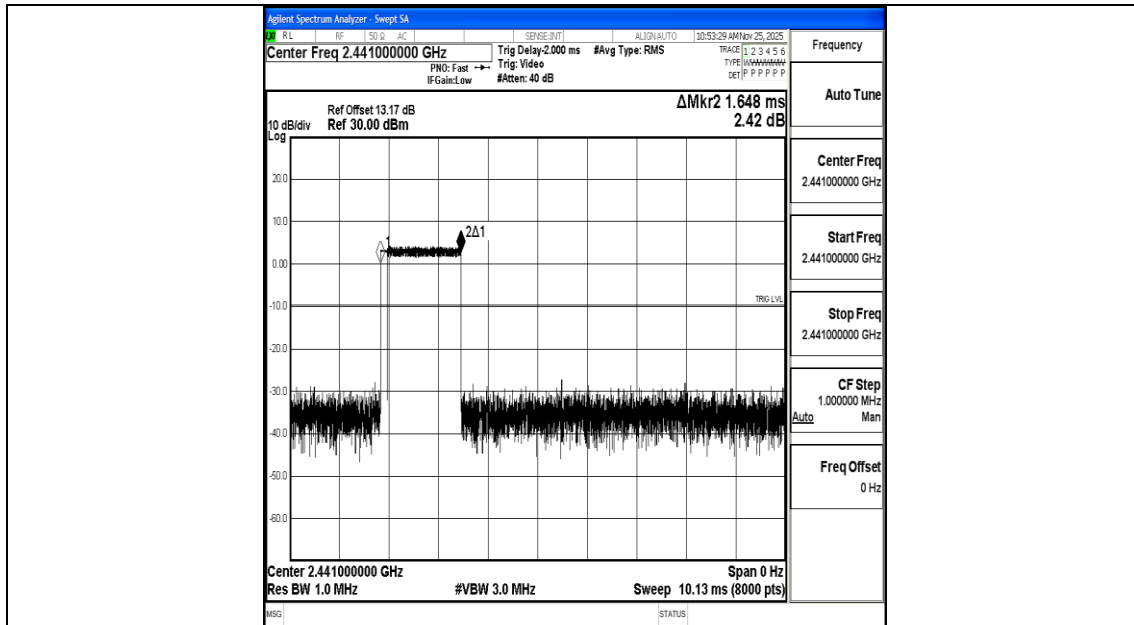




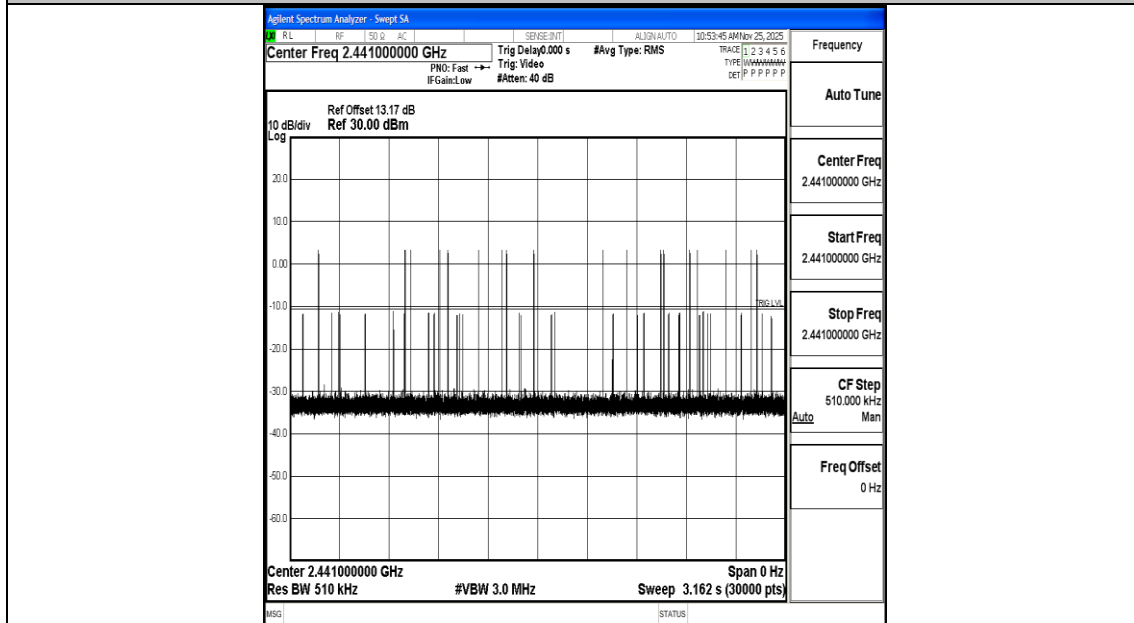


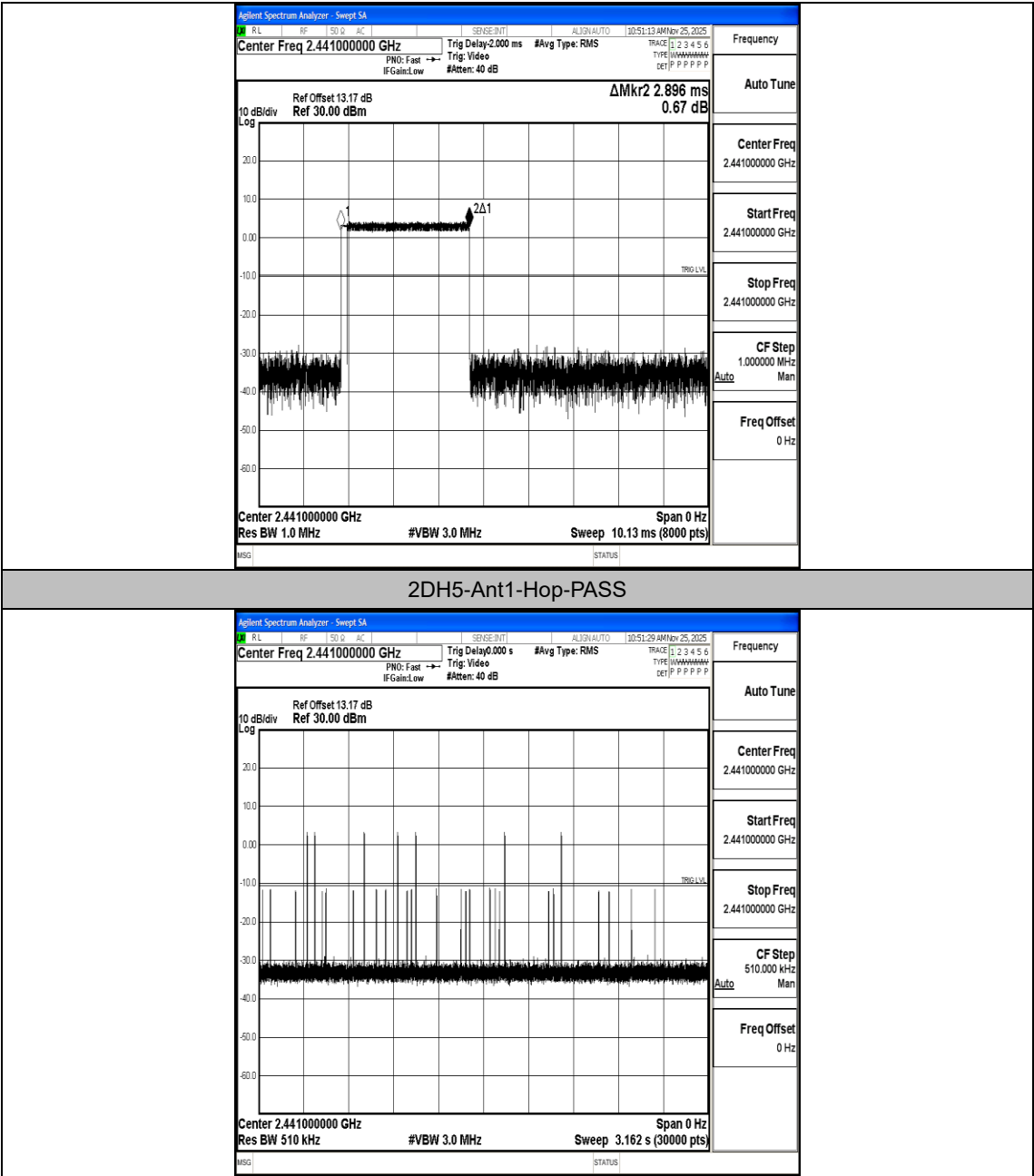
2DH1-Ant1-Hop-PASS

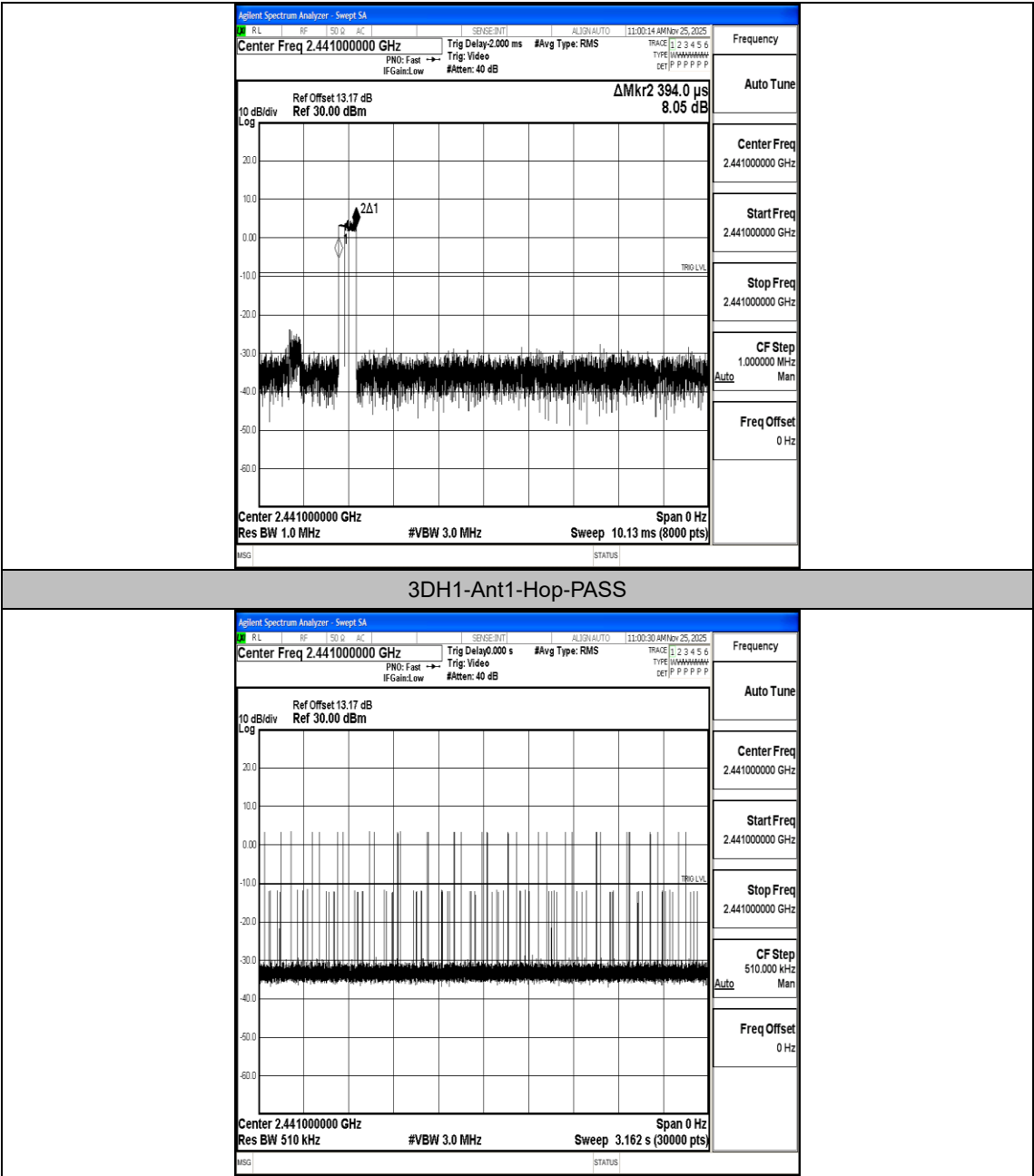


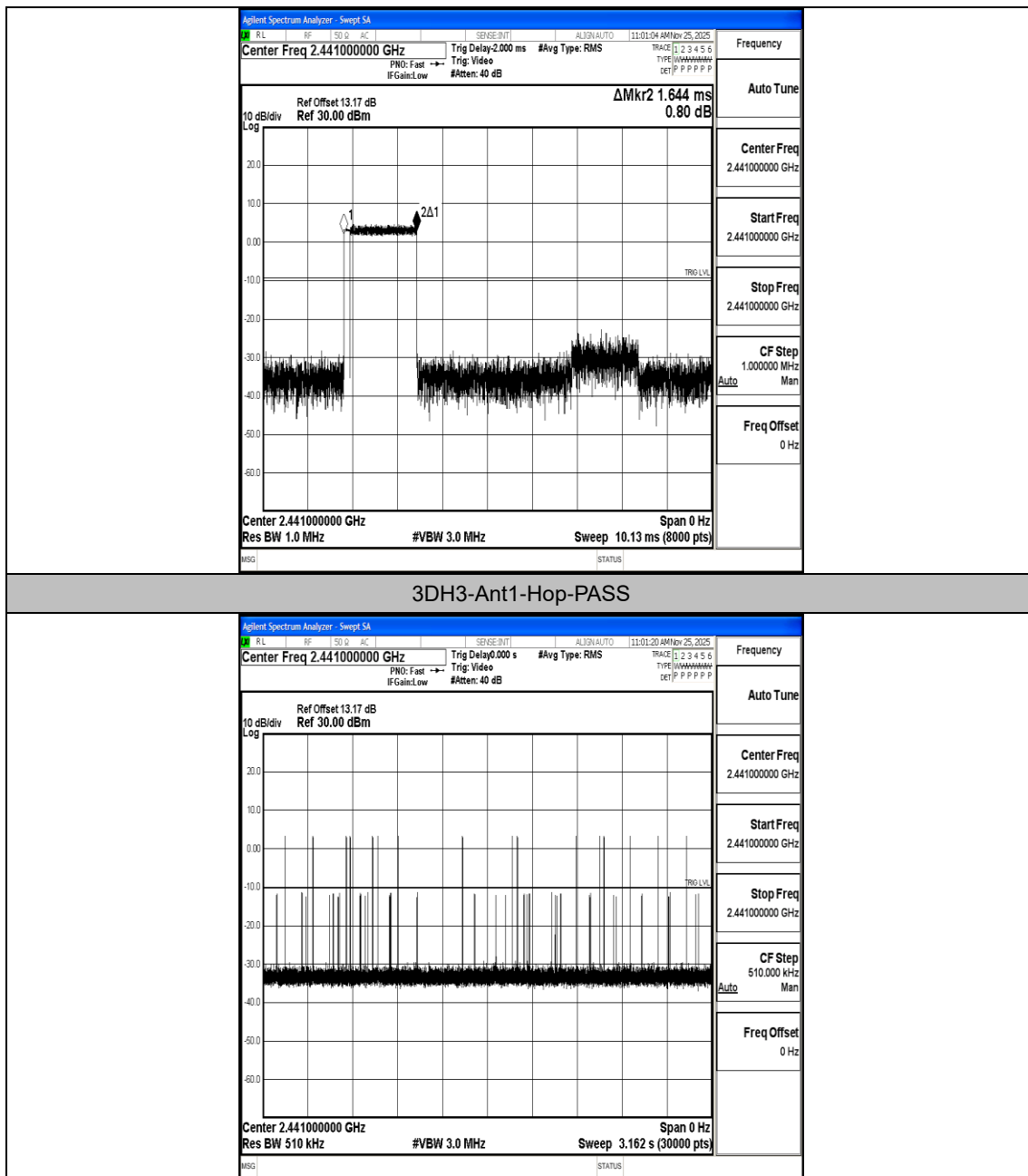


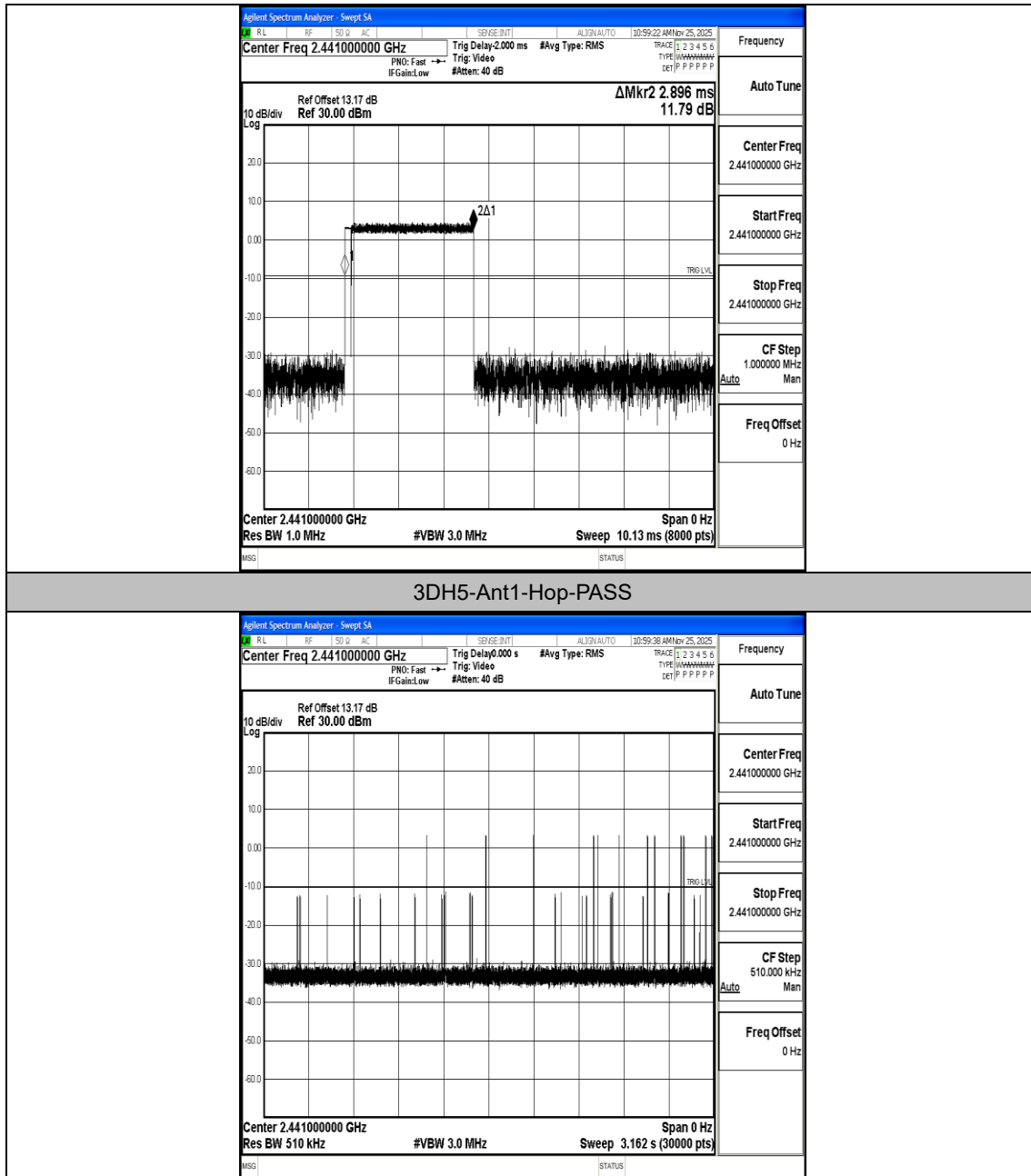
2DH3-Ant1-Hop-PASS









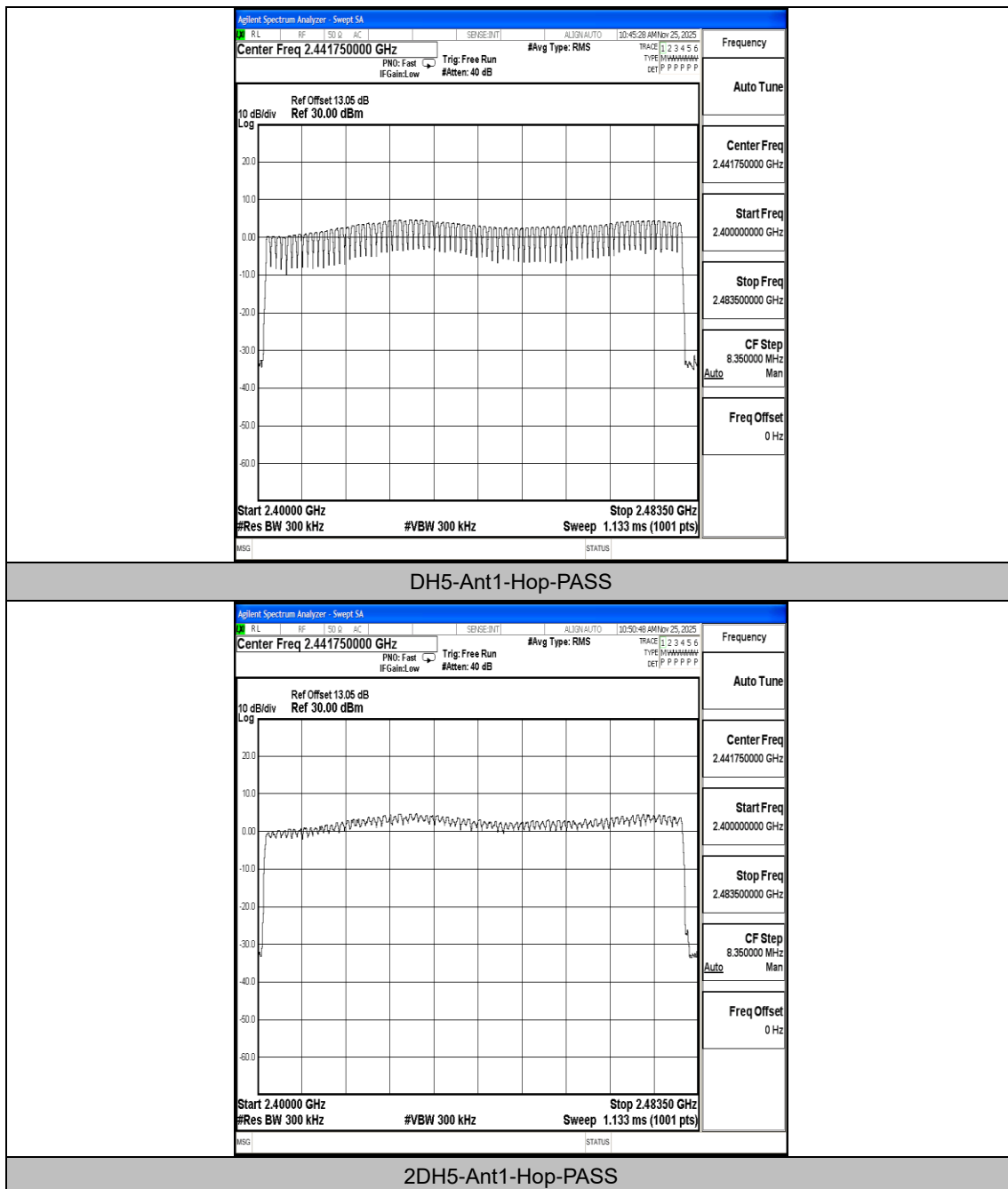


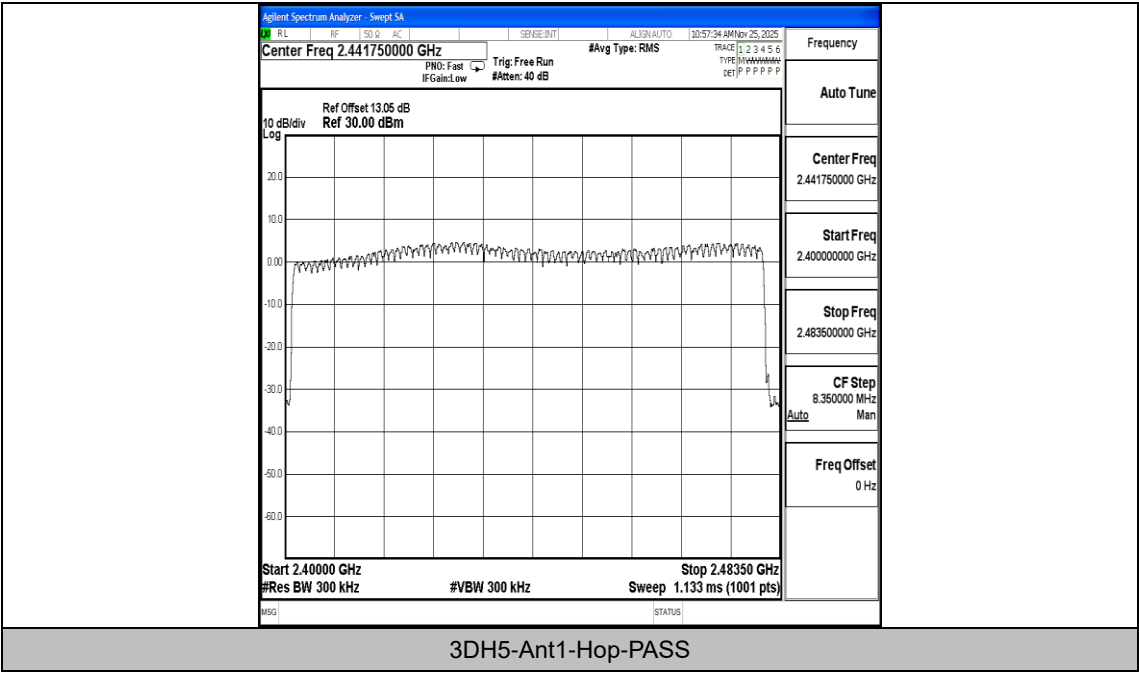
Appendix F: Number of hopping channels

Test Result

TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

Test Graphs



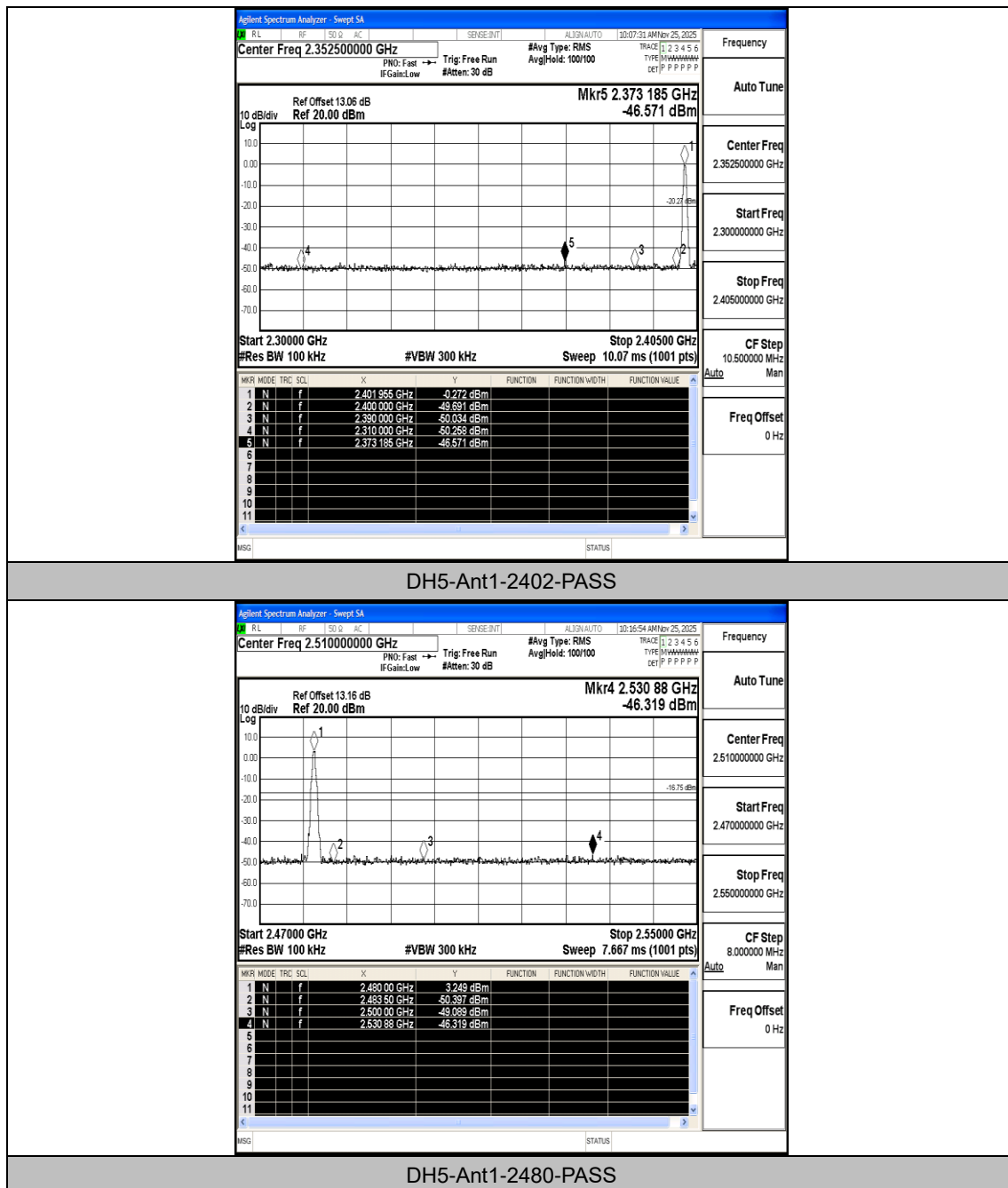


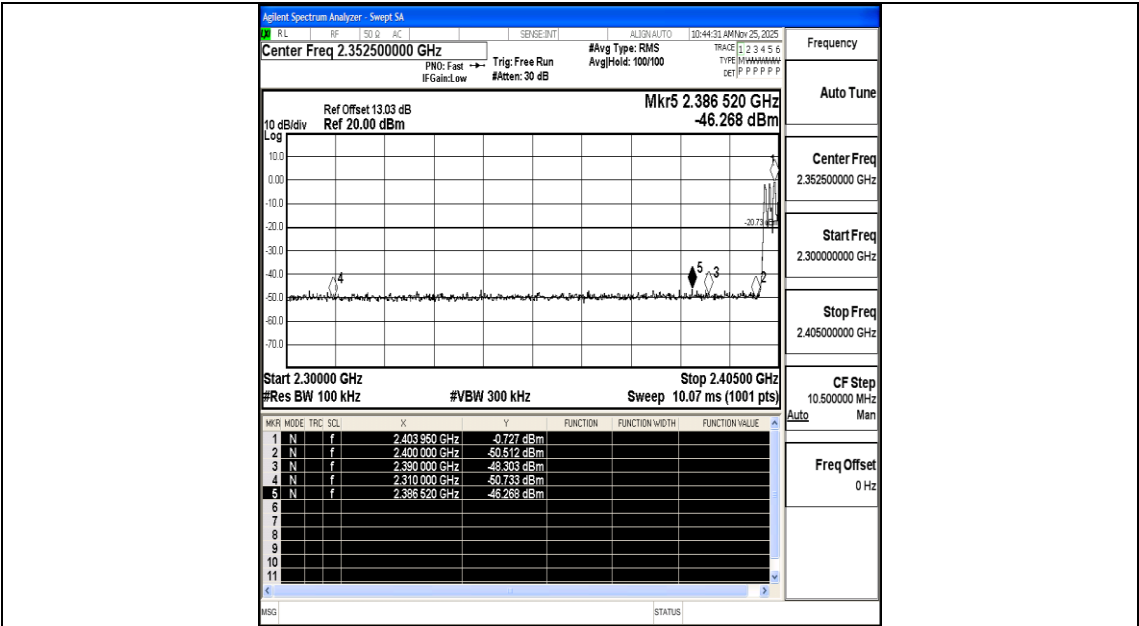
Appendix G: Band edge measurements

Test Result

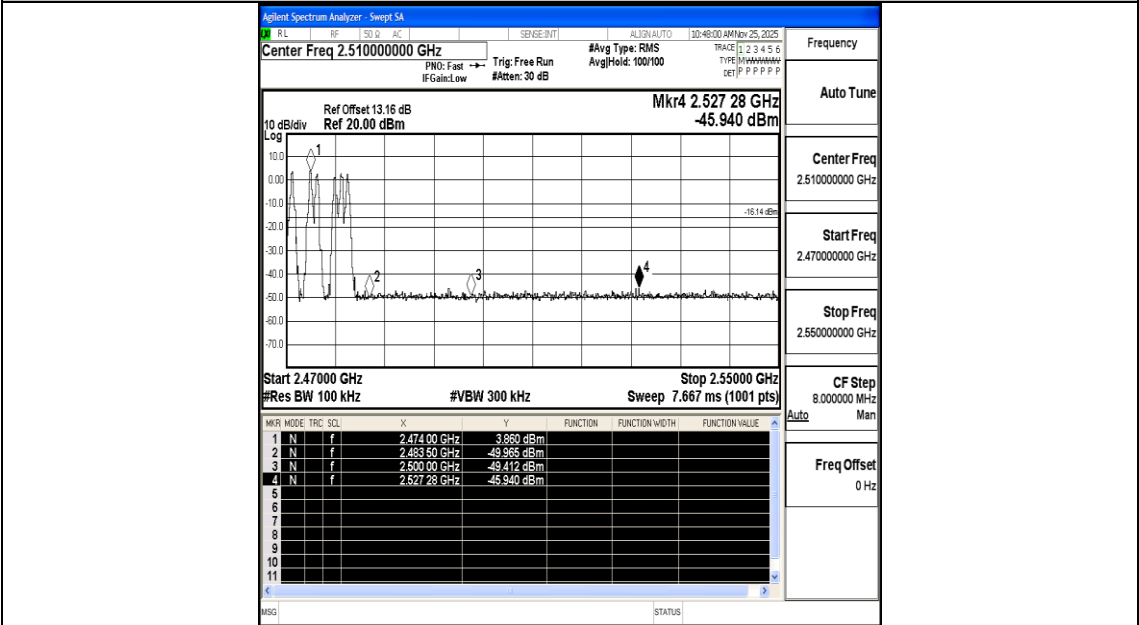
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.27	-46.57	≤ -20.27	PASS
DH5	Ant1	High	2480	3.25	-46.32	≤ -16.75	PASS
DH5	Ant1	Low	Hop_2402	-0.73	-46.27	≤ -20.73	PASS
DH5	Ant1	High	Hop_2480	3.86	-45.94	≤ -16.14	PASS
2DH5	Ant1	Low	2402	0.08	-46.35	≤ -19.92	PASS
2DH5	Ant1	High	2480	3.15	-46.22	≤ -16.85	PASS
2DH5	Ant1	Low	Hop_2402	-3.01	-46.53	≤ -23.01	PASS
2DH5	Ant1	High	Hop_2480	1.07	-45.49	≤ -18.93	PASS
3DH5	Ant1	Low	2402	-0.22	-45.37	≤ -20.22	PASS
3DH5	Ant1	High	2480	3.11	-46.33	≤ -16.9	PASS
3DH5	Ant1	Low	Hop_2402	-2.70	-46.08	≤ -22.7	PASS
3DH5	Ant1	High	Hop_2480	2.06	-46.67	≤ -17.94	PASS

Test Graphs

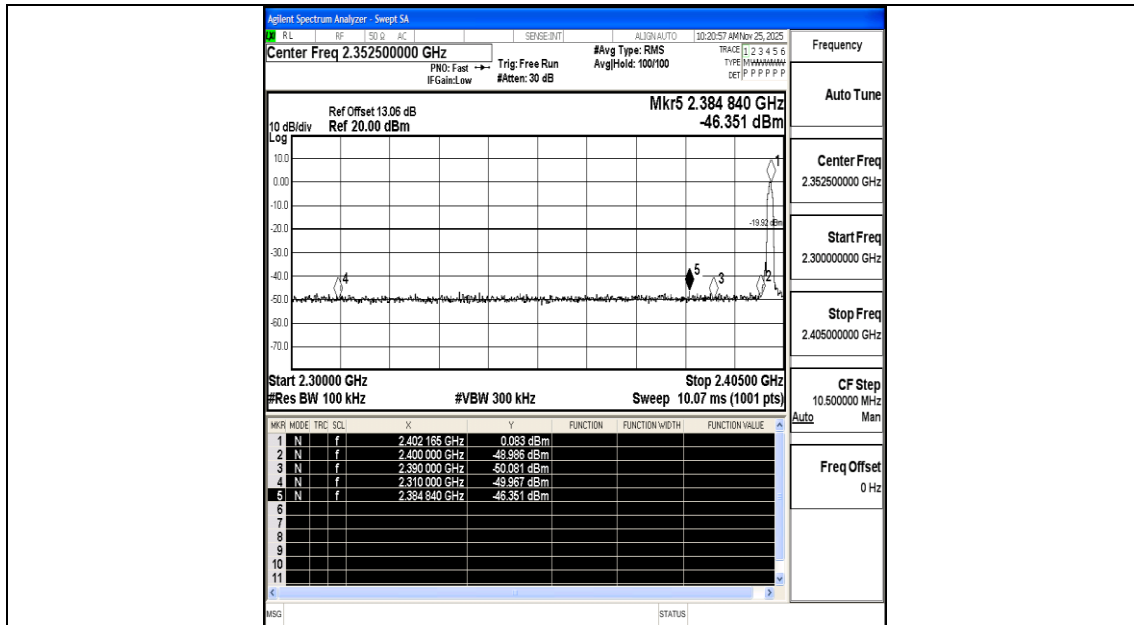




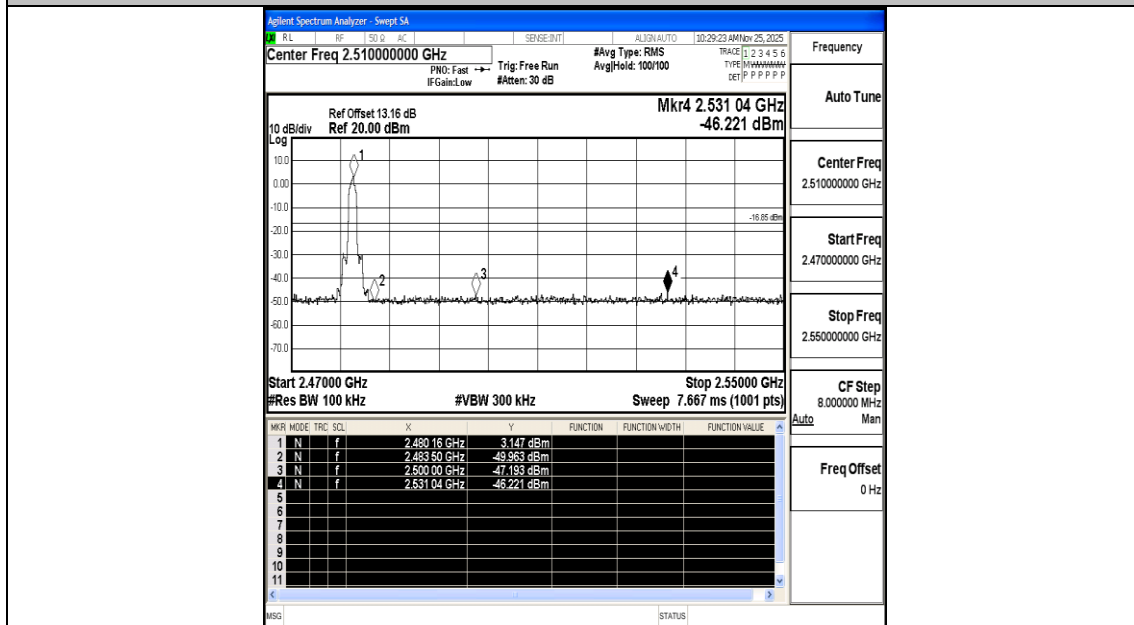
DH5-Ant1-Hop_2402-PASS



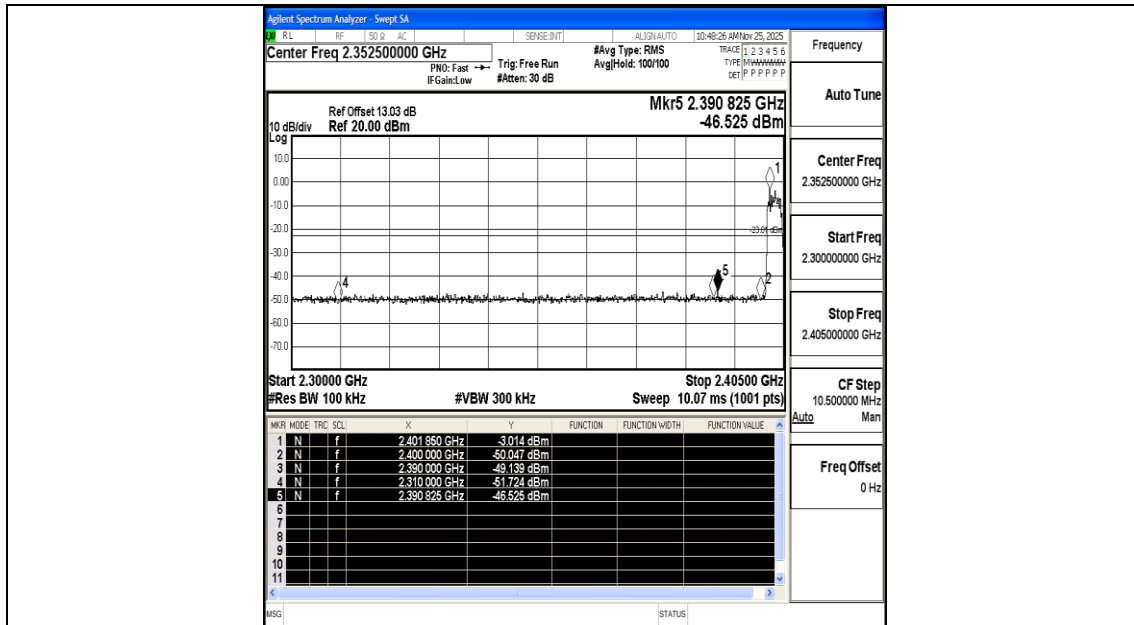
DH5-Ant1-Hop_2480-PASS



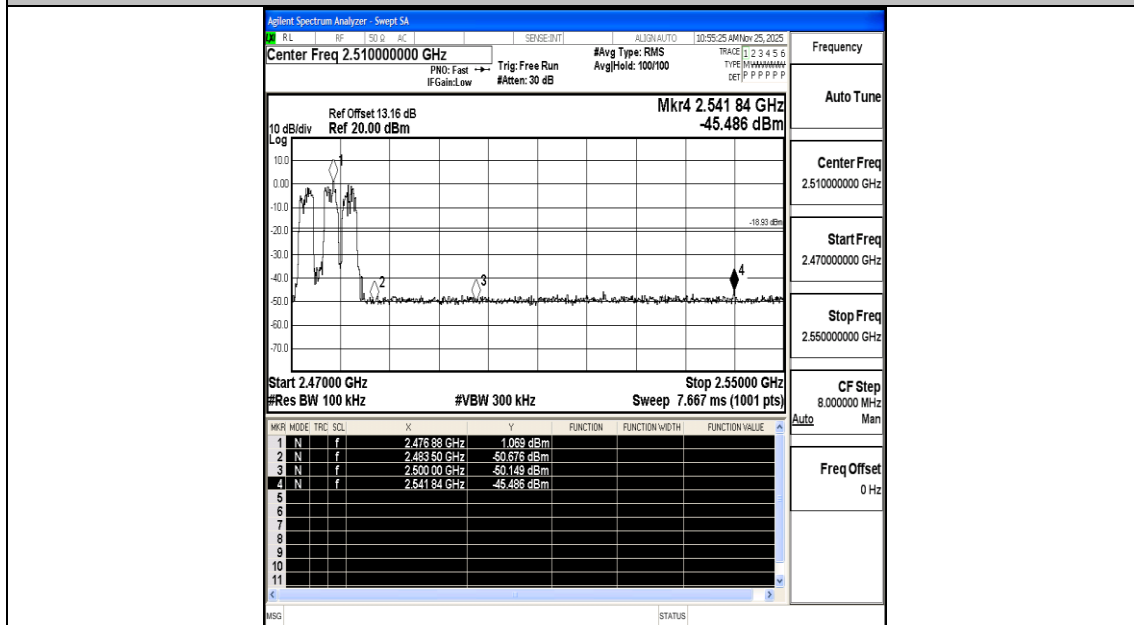
2DH5-Ant1-2402-PASS



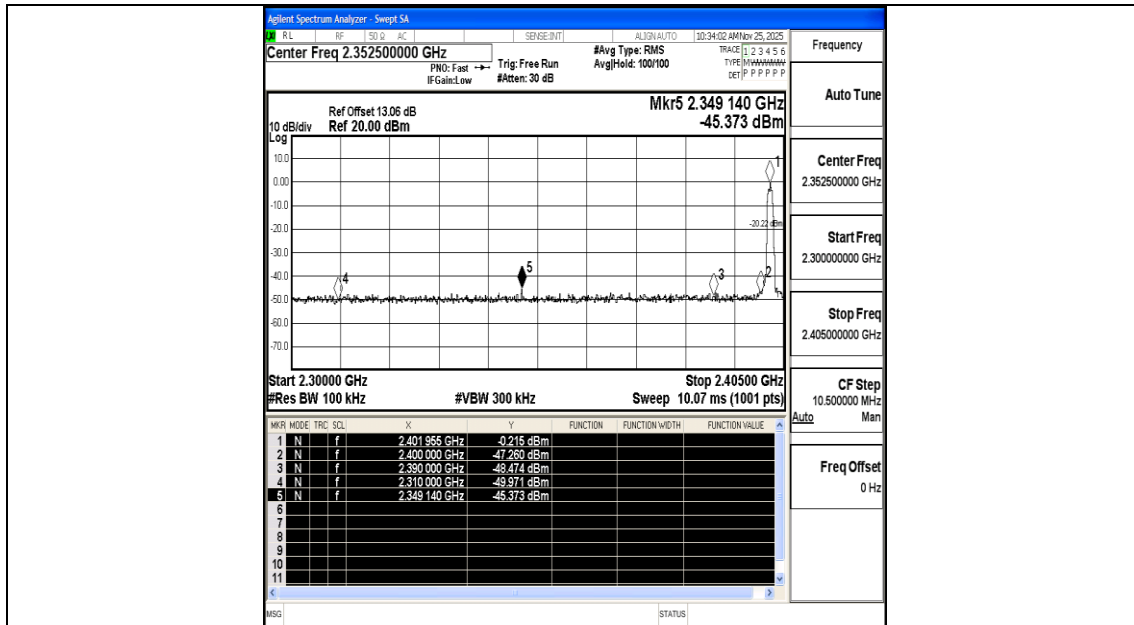
2DH5-Ant1-2480-PASS



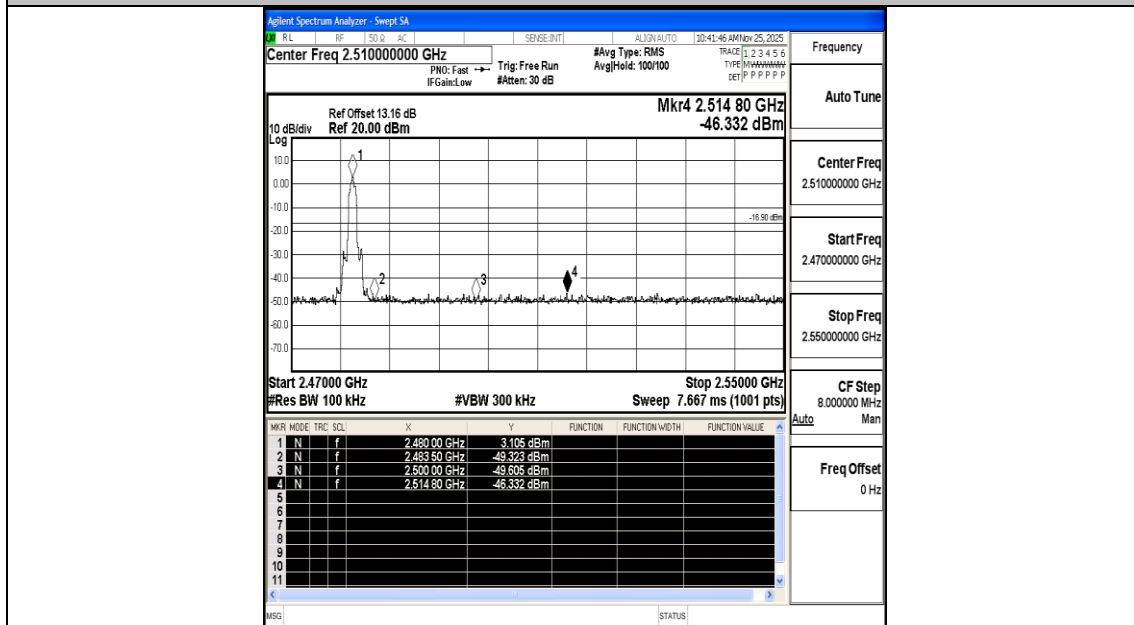
2DH5-Ant1-Hop_2402-PASS



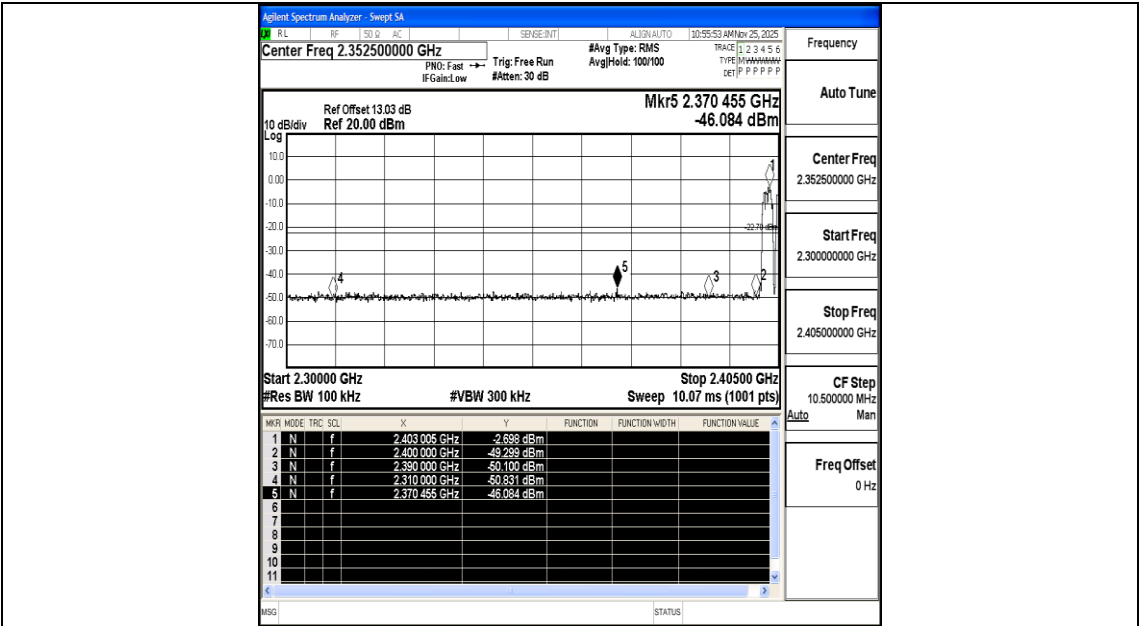
2DH5-Ant1-Hop_2480-PASS



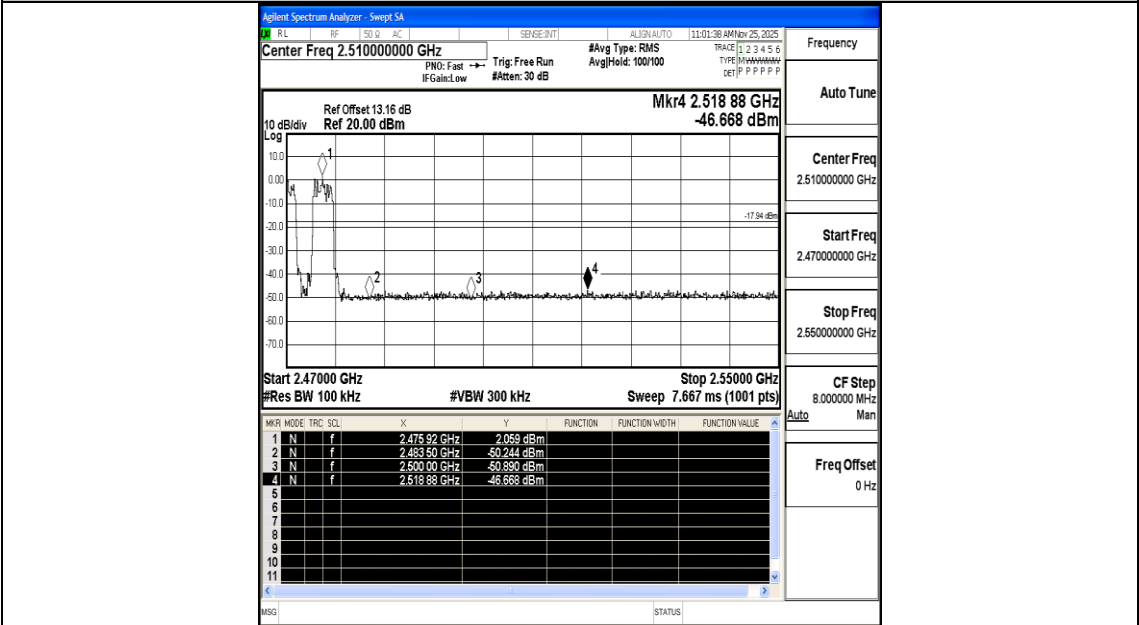
3DH5-Ant1-2402-PASS



3DH5-Ant1-2480-PASS



3DH5-Ant1-Hop_2402-PASS



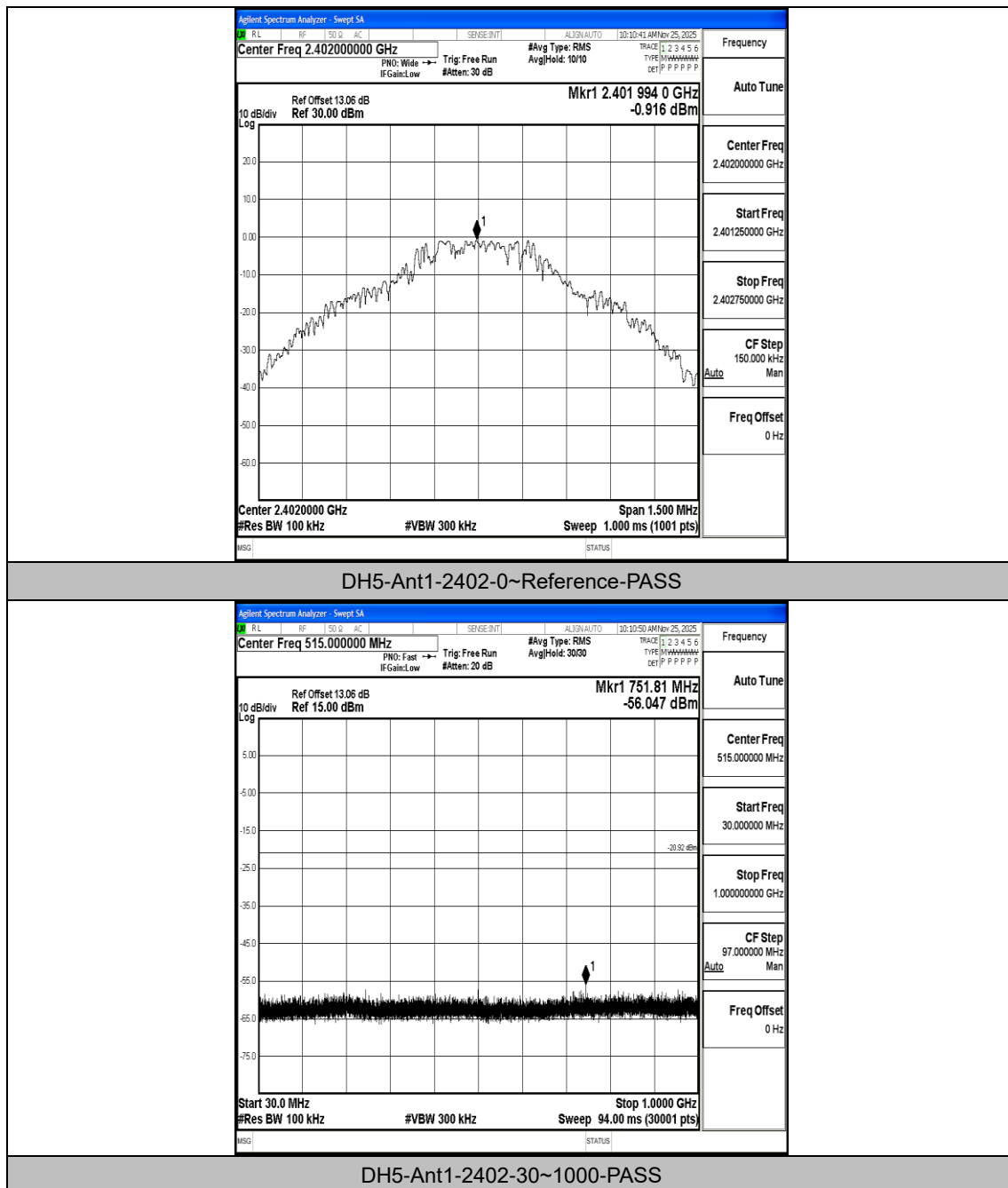
3DH5-Ant1-Hop_2480-PASS

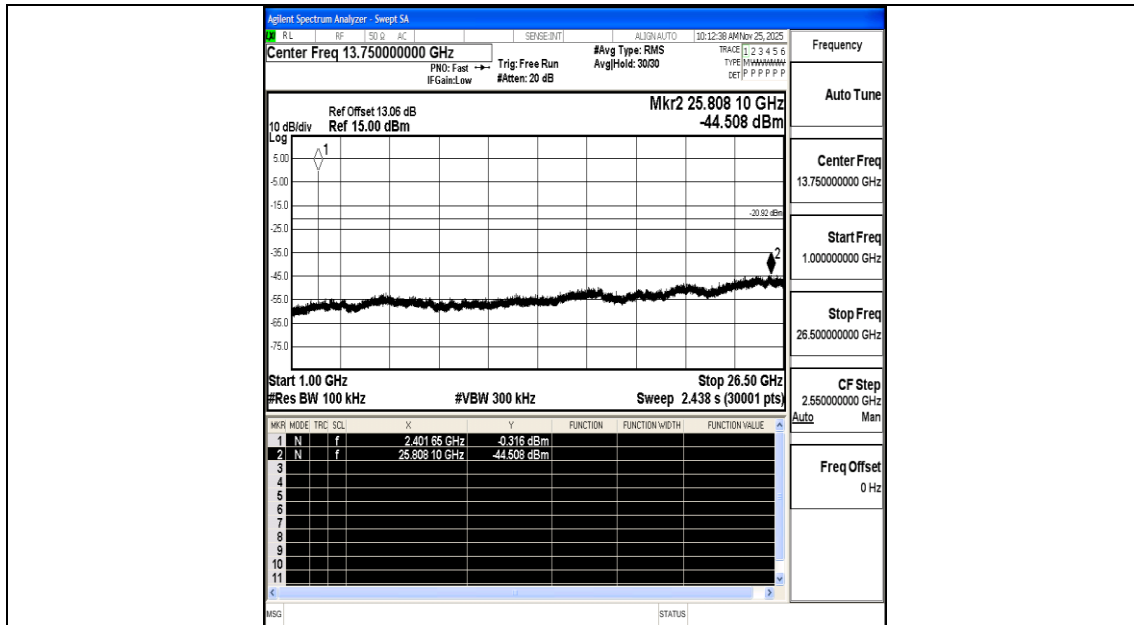
Appendix H: Conducted Spurious Emission

Test Result

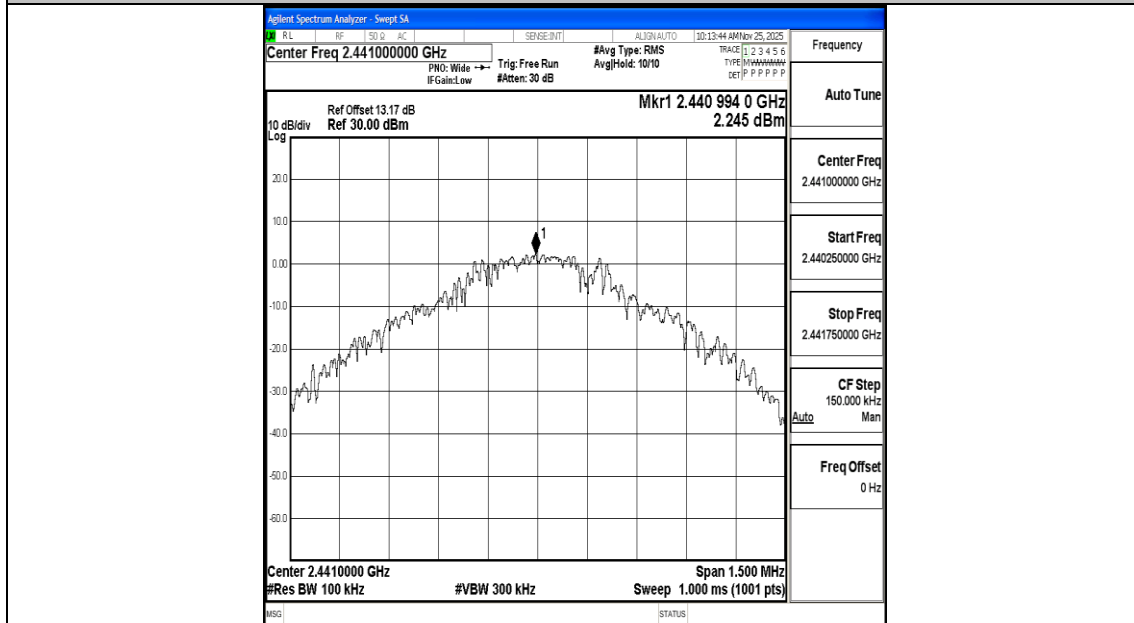
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	-0.92	-0.92	---	PASS
DH5	Ant1	2402	30~1000	-0.92	-56.05	≤-20.92	PASS
DH5	Ant1	2402	1000~26500	-0.92	-44.51	≤-20.92	PASS
DH5	Ant1	2441	0~Reference	2.25	2.25	---	PASS
DH5	Ant1	2441	30~1000	2.25	-57.04	≤-17.75	PASS
DH5	Ant1	2441	1000~26500	2.25	-44.32	≤-17.75	PASS
DH5	Ant1	2480	0~Reference	2.88	2.88	---	PASS
DH5	Ant1	2480	30~1000	2.88	-56.57	≤-17.12	PASS
DH5	Ant1	2480	1000~26500	2.88	-44.38	≤-17.12	PASS
2DH5	Ant1	2402	0~Reference	-1.73	-1.73	---	PASS
2DH5	Ant1	2402	30~1000	-1.73	-56.87	≤-21.73	PASS
2DH5	Ant1	2402	1000~26500	-1.73	-41.44	≤-21.73	PASS
2DH5	Ant1	2441	0~Reference	1.89	1.89	---	PASS
2DH5	Ant1	2441	30~1000	1.89	-56.16	≤-18.11	PASS
2DH5	Ant1	2441	1000~26500	1.89	-44.01	≤-18.11	PASS
2DH5	Ant1	2480	0~Reference	3.41	3.41	---	PASS
2DH5	Ant1	2480	30~1000	3.41	-56.48	≤-16.59	PASS
2DH5	Ant1	2480	1000~26500	3.41	-44.42	≤-16.59	PASS
3DH5	Ant1	2402	0~Reference	-1.02	-1.02	---	PASS
3DH5	Ant1	2402	30~1000	-1.02	-57.02	≤-21.02	PASS
3DH5	Ant1	2402	1000~26500	-1.02	-44.17	≤-21.02	PASS
3DH5	Ant1	2441	0~Reference	0.46	0.46	---	PASS
3DH5	Ant1	2441	30~1000	0.46	-57.31	≤-19.54	PASS
3DH5	Ant1	2441	1000~26500	0.46	-44.56	≤-19.54	PASS
3DH5	Ant1	2480	0~Reference	2.62	2.62	---	PASS
3DH5	Ant1	2480	30~1000	2.62	-57.26	≤-17.38	PASS
3DH5	Ant1	2480	1000~26500	2.62	-44.51	≤-17.38	PASS

Test Graphs





DH5-Ant1-2402-1000~26500-PASS



DH5-Ant1-2441-0~Reference-PASS